

# OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

## FORM 1- NOTICE OF CONSTRUCTION TO CONSTRUCT - INSTALL - ESTABLISH OR MODIFY AN AIR CONTAMINANT SOURCE

**Form 1 Instructions:**

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records ([www.orcaa.org](http://www.orcaa.org)).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

<b>Business Name:</b> City of Aberdeen	<b>For ORCAA use only</b> File No: 217 County No: 27 Source No: 104 Application No: 23NOC1619
<b>Mailing Address:</b> 200 East Market Street Aberdeen, WA 98520	Date Received: <div style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">                     Received                      OCT 12 2023                      ORCAA                 </div>
<b>Physical Address of Project or New Source:</b> City of Aberdeen Wastewater Treatment Plant 1205 W State Street, Aberdeen, WA 98520	
<b>Billing Address:</b> City of Aberdeen 200 East Market Street Aberdeen, WA 98520	
<b>Project or Equipment to be installed/established:</b>  Odor control unit on Sludge Holding Tank. Carbon media filter, 1.5 HP fan, control panel.	
Anticipated startup date: <u>8</u> / <u>1</u> / 2024 Is facility currently registered with ORCAA? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option: <input checked="" type="checkbox"/> SEPA was satisfied by <u>City of Aberdeen</u> (government agency) on <u>7</u> / <u>20</u> / <u>23</u> (date) - Include a copy of the SEPA determination <input type="checkbox"/> SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist <input type="checkbox"/> ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist <input type="checkbox"/> This project is exempt from SEPA per _____ (WAC citation).	
<b>Name of Owner of Business:</b> City of Aberdeen (Public Works Department)	<b>Agency Use Only</b>
Title: Nick Bird P.E., City Engineer	
Email: <u>nbird@aberdeenwa.gov</u>	Phone: <u>360-537-3218</u>
<b>Authorized Representative for Application (if different than owner):</b>	
Title:	
Email:	Phone:
I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.	
<b>Signature of Owner or Authorized Representative: (sign in Blue Ink)</b>	
	Date: <u>10/3/23</u>
<b>IMPORTANT:</b> Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.	

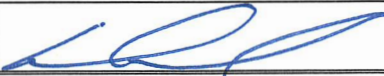
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## OLYMPIC REGION CLEAN AIR AGENCY

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### FORM 1D- Contact Information

<b>Business Name</b> City of Aberdeen	<b>FOR ORCAA USE</b>
	<b>FILE #</b>
<b>Physical Site Address (Street address, city, state, zip)</b> City of Aberdeen Wastewater Treatment Plant 1205 W State Street, Aberdeen, WA 98520	<b>CTY #</b>
	<b>SRC #</b>
	<b>Date Received</b>
<b>Previous Business Name (if applicable)</b>	

#### Contact Information

<b>Inspection Contact</b>	
Name <b>Jesse Mottinger</b>	Title <b>WWS manager</b>
Phone <b>360-537-3285</b>	Email <b>jmottinger@aberdeenwa.gov</b>
<b>Billing Contact</b>	
Name <b>Becca Anderson</b>	Title <b>Deputy City Clerk</b>
Phone <b>360-537-3219</b>	Email <b>rjanderson@aberdeenwa.gov</b>
<b>Emission Inventory Contact</b>	
Name <b>Jesse Mottinger</b>	Title <b>WWS manager</b>
Phone <b>360-537-3285</b>	Email <b>jmottinger@aberdeenwa.gov</b>
<b>Complaint Contact</b>	
Name <b>Nick Bird</b>	Title <b>City Engineer</b>
Phone <b>360-537-3218</b>	Email <b>nbird@aberdeenwa.gov</b>
<b>Permit Contact</b>	
Name <b>Nick Bird</b>	Title <b>City Engineer</b>
Phone <b>360-537-3218</b>	Email <b>nbird@aberdeenwa.gov</b>

The **inspection contact** is the on-site person responsible for the everyday operation of the site and is available for inspections.

The **billing contact** is the person invoices are sent.

The **emission inventory contact** is the person requests for emissions information and material use information are sent.

The **complaint contact** is the person who receives and responds to complaints received on-site and who is contacted regarding complaints ORCAA receives.

The **permit contact** is the person responsible for filling out permit applications and receiving approval from ORCAA.

## City of Aberdeen WWTP

### Sludge Holding Tanks Description

The two small Sludge Holding Tanks were constructed and used as digesters in the late 1950s. Sludge incinerators were built in the 1977-1981 WWTP upgrade and the smaller digesters were converted to Sludge Holding Tanks for storage of sludge prior to dewatering. In 1990, the large digester was added and the two Sludge Holding Tanks were converted to storage vessels for digested sludge.

Currently the existing north and south Sludge Holding Tanks vent via a 4-inch combination relief valve-flame arrestor that is installed on what was originally the gas dome. Air is vented from the Sludge Holding Tanks as the remaining bacterial activity in the digested sludge respire. Odors contained in the discharged air are currently uncontrolled. The existing combination relief valve-flame arrestor units will be removed and a 4" blind flange installed at each of the existing openings (Sheet M502). New 10-inch diameter odor control ducts will be installed in the Sludge Holding Tank roofs. The 10-inch odor control ducts will be directed to one of the two odor control media units located on the roof of the Sludge Building. An additional 10-inch diameter odor control duct will be installed on the roof of each of the Sludge Holding Tanks to supply make-up air to the tank. The location of the odor control ducts (supply and discharge) are shown on Sheet M506.

Air flow out of the Sludge Holding Tanks will be controlled by the odor control fan (one per odor control unit) (Sheet M506). The positive air flow out of the Sludge Holding Tanks will draw outside air into the tank headspace via the supply ducts. The air control fan will discharge at approximately elevation 35 feet (dependent upon supplier) which is lower than the existing top of the original gas dome (elevation 36.50 per 1990 plans). The elevation plan showing the location of the odor control units on the roof of the Sludge Holding Tank Building roof is shown in Section A, Sheet M508.

The carbon media odor control system that will be installed at the sludge holding tanks will include the following components:

1. Carbon Absorber Vessels
2. Activated Carbon Media
3. Fan and Motor Assemblies
4. Instruments
5. System Accessories
6. Sound/Weather Enclosures
7. Outlet Silencers/Stacks

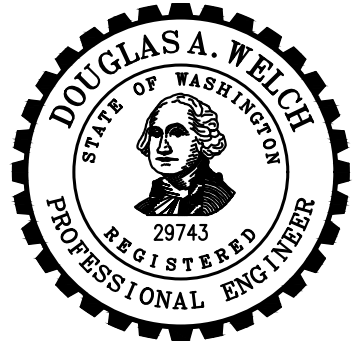
The odor control system is designed to remove the odorous constituents from the process air stream under the following operating conditions:

<u>Process Parameter</u>	<u>Value</u>
Duty.....	Continuous
Elevation Above Sea Level .....	30 feet
Location .....	Outdoors
Inlet Air Temp .....	40 to 120 degrees F
Inlet Relative Humidity .....	30% to 90%
Total Air Volume .....	1,000 cfm
H2S Loading .....	Ave 6 ppm/Peak 30 ppm
Removal Required H2S .....	99% removal

The fans that control air flow through the odor control units will be 1,000 cfm, 1.5 hp (constant speed). The exhaust fans will be controlled from a local control panel that is mounted a minimum of 3 feet away from the system in accordance with Class I, Division 2 requirements. The control panel will include an hand-off-auto (HOA) switch for the fans, main power disconnect, motor starter for the exhaust fans and dry contacts for exhaust fan run and fan fail.

A sales brochure of the odor control unit the specifications were written around is attached.

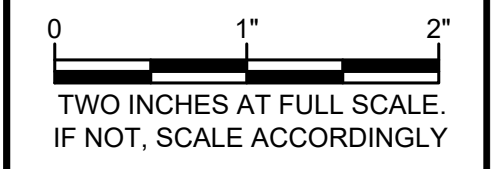
The City of Aberdeen WWTP is located on several parcels. See the attached figure "City of Aberdeen Wastewater Treatment Plant Sludge Holding Tank Odor Control Units Site Plan". The WWTP site includes Parcels No. 029407400000, 029901800402, 029901800405 and 029901800407. The Sludge Holding Tanks and the proposed Odor Control Units are located in Parcel 029901800402. The minimum distance from the odor control units to a property line of Parcel 029901800402 is 61.34 feet. The minimum distance from the odor control units to a property line that is not abutted by a parcel that includes the WWTP is 69 feet.



No.	DATE	REVISION

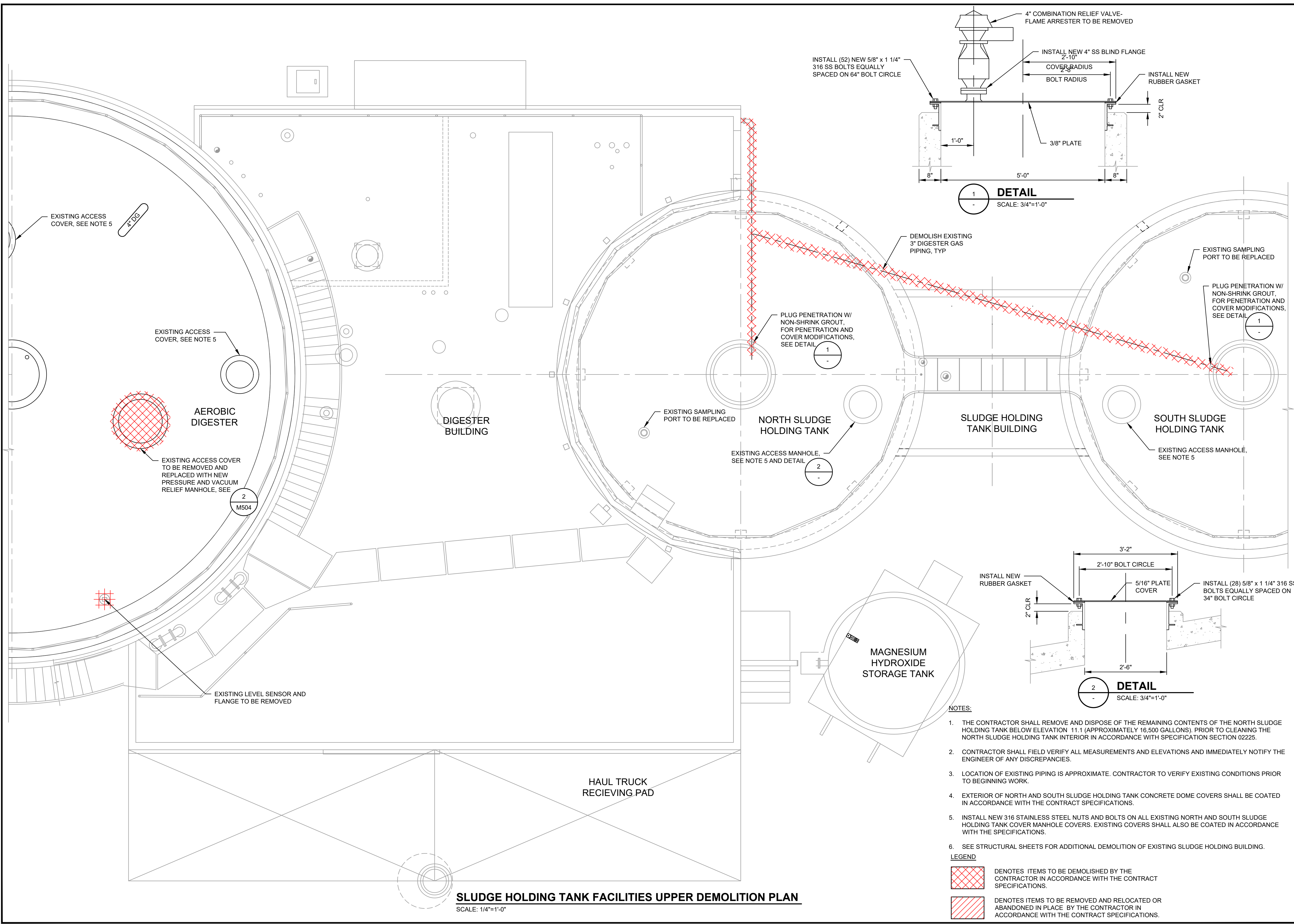
ISSUED FOR:  
**QA/QC,  
 NOT FOR  
 CONSTRUCTION**

ISSUE DATE:	SEPTEMBER 2023
APPROVED BY:	DAW
CHECKED BY:	DAW
DRAWN BY:	CRR
DESIGNER:	DAW
G & O JOB NO.:	22610.00
FILE:	SHT_DEMO_UPPER.DWG



**MECHANICAL**

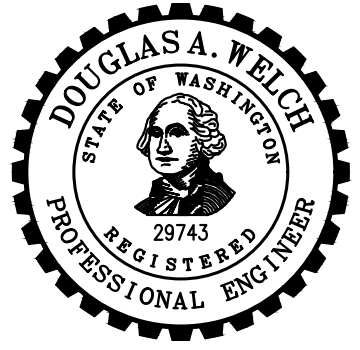
**SLUDGE HOLDING TANKS AND BUILDING  
 DEMOLITION UPPER  
 PLAN**



- NOTES:**
1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE REMAINING CONTENTS OF THE NORTH SLUDGE HOLDING TANK BELOW ELEVATION 11.1 (APPROXIMATELY 16,500 GALLONS), PRIOR TO CLEANING THE NORTH SLUDGE HOLDING TANK INTERIOR IN ACCORDANCE WITH SPECIFICATION SECTION 02225.
  2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND ELEVATIONS AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
  3. LOCATION OF EXISTING PIPING IS APPROXIMATE. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
  4. EXTERIOR OF NORTH AND SOUTH SLUDGE HOLDING TANK CONCRETE DOME COVERS SHALL BE COATED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
  5. INSTALL NEW 316 STAINLESS STEEL NUTS AND BOLTS ON ALL EXISTING NORTH AND SOUTH SLUDGE HOLDING TANK COVER MANHOLE COVERS. EXISTING COVERS SHALL ALSO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
  6. SEE STRUCTURAL SHEETS FOR ADDITIONAL DEMOLITION OF EXISTING SLUDGE HOLDING BUILDING.
- LEGEND**
- DENOTES ITEMS TO BE DEMOLISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
  - DENOTES ITEMS TO BE REMOVED AND RELOCATED OR ABANDONED IN PLACE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.

**SLUDGE HOLDING TANK FACILITIES UPPER DEMOLITION PLAN**  
 SCALE: 1/4"=1'-0"

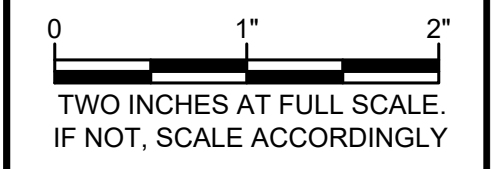
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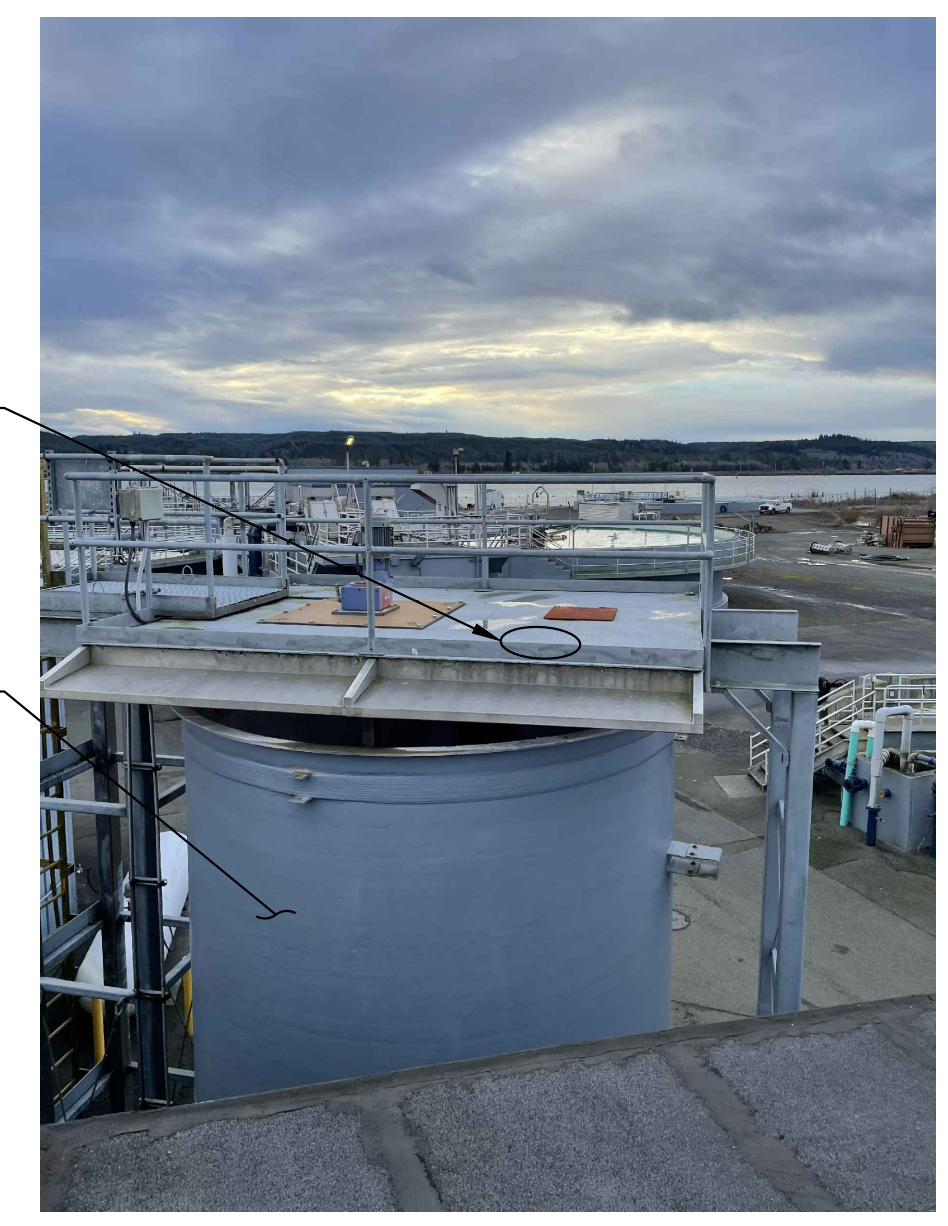
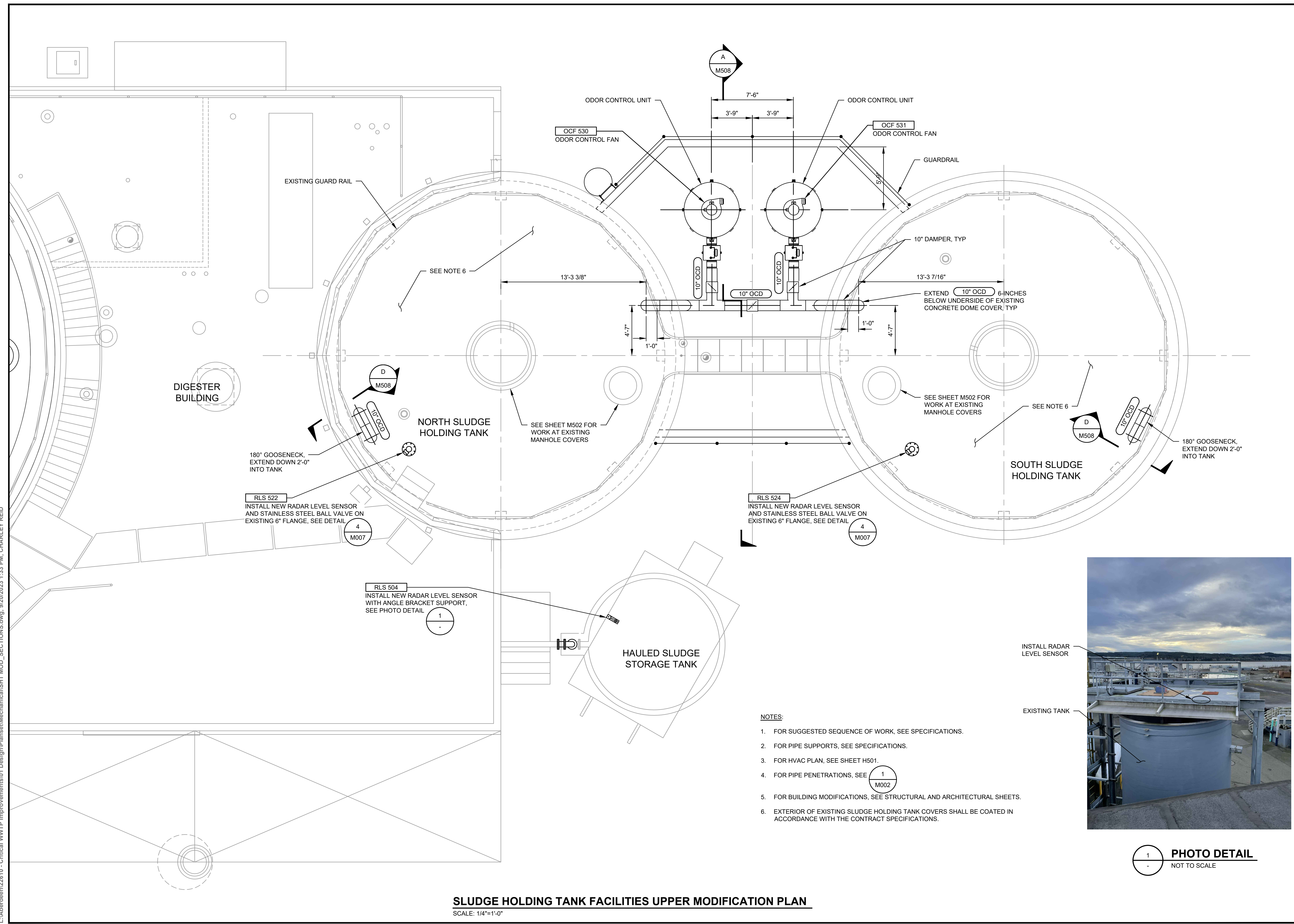
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G & O JOB NO.:	22610.00
FILE:	SHT_MOD_SECTIONS.DWG



**MECHANICAL**

**SLUDGE HOLDING TANK FACILITIES  
 UPPER MODIFICATION  
 PLAN**

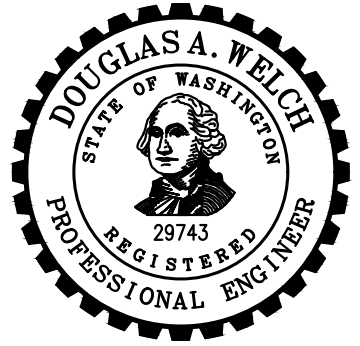


**1**  
**PHOTO DETAIL**  
 NOT TO SCALE

- NOTES:**
- FOR SUGGESTED SEQUENCE OF WORK, SEE SPECIFICATIONS.
  - FOR PIPE SUPPORTS, SEE SPECIFICATIONS.
  - FOR HVAC PLAN, SEE SHEET H501.
  - FOR PIPE PENETRATIONS, SEE **1** M002
  - FOR BUILDING MODIFICATIONS, SEE STRUCTURAL AND ARCHITECTURAL SHEETS.
  - EXTERIOR OF EXISTING SLUDGE HOLDING TANK COVERS SHALL BE COATED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.

**SLUDGE HOLDING TANK FACILITIES UPPER MODIFICATION PLAN**  
 SCALE: 1/4"=1'-0"

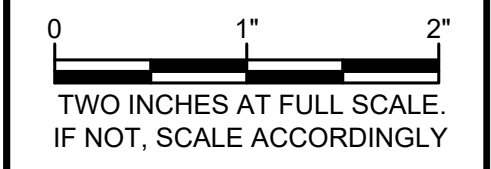
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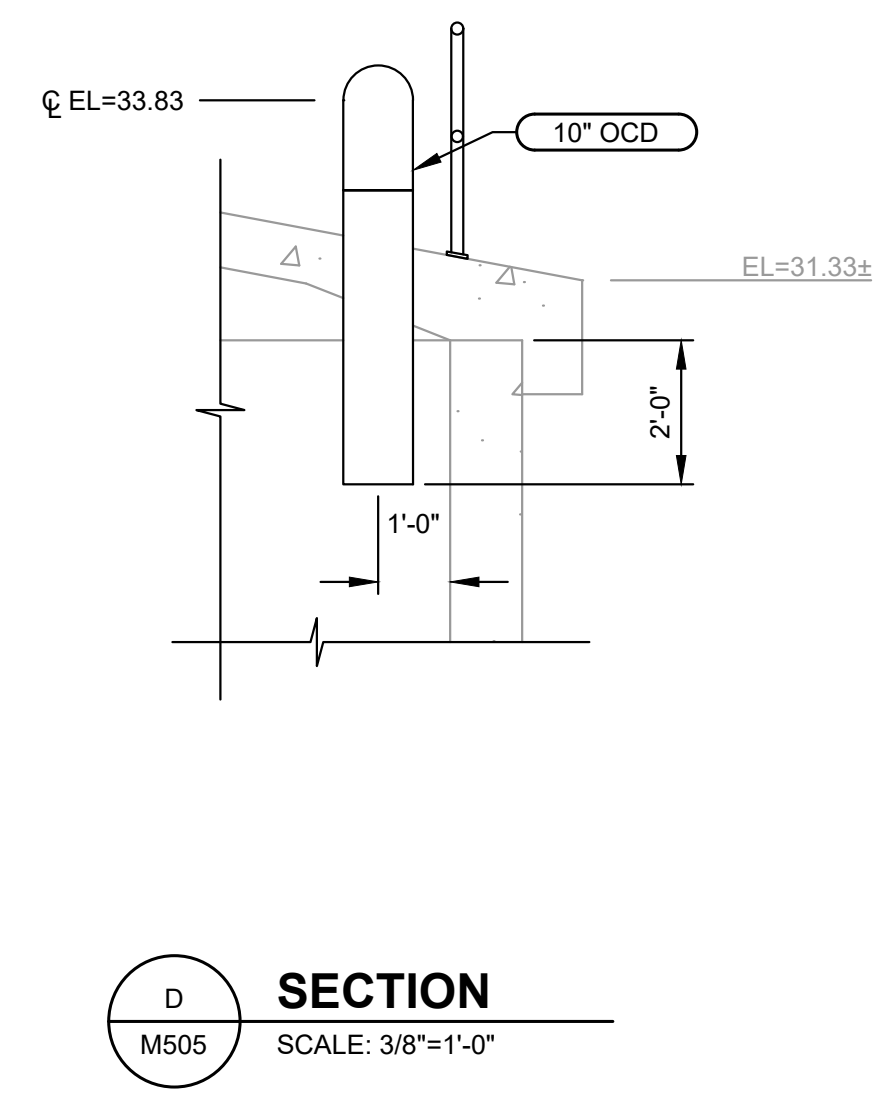
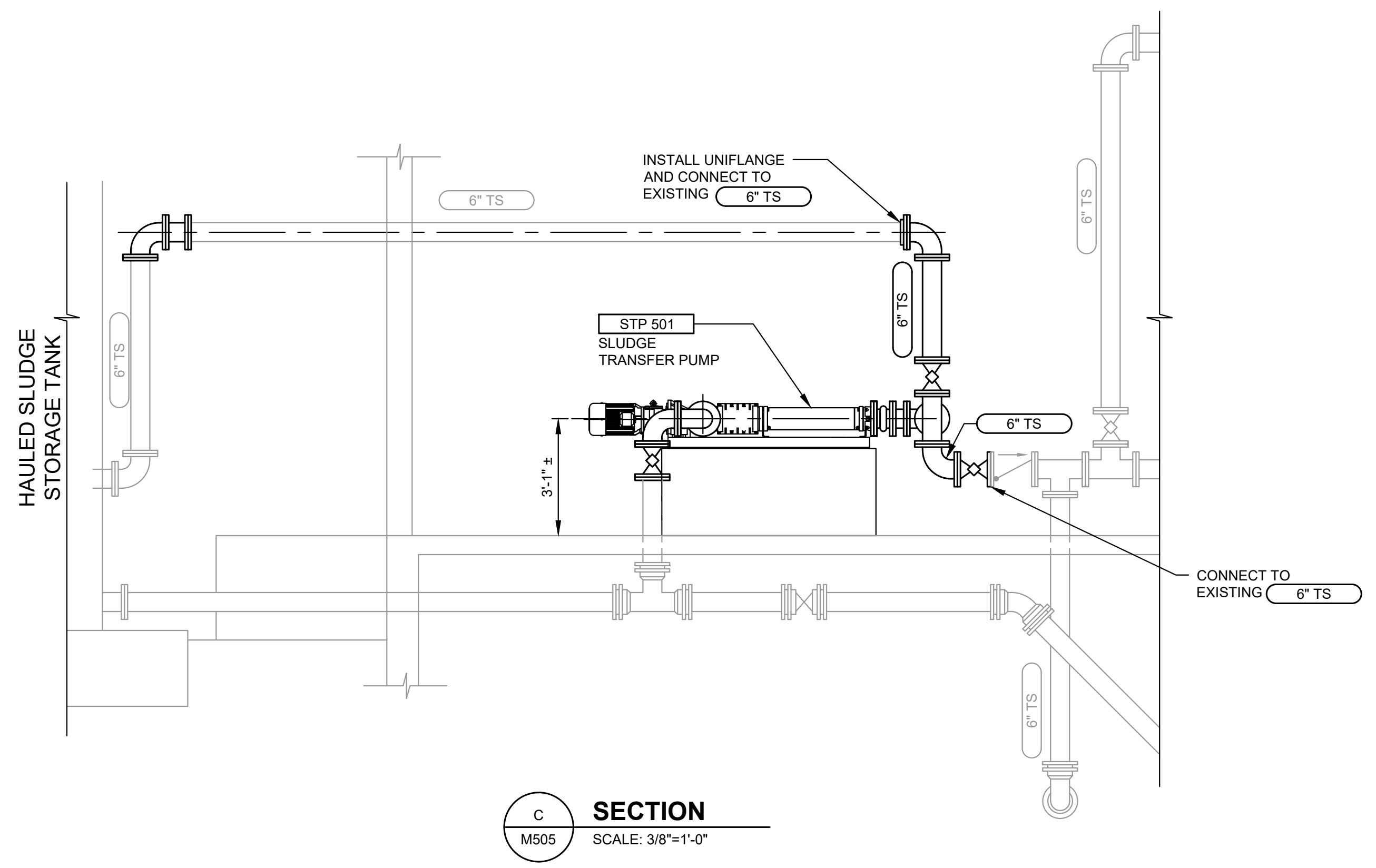
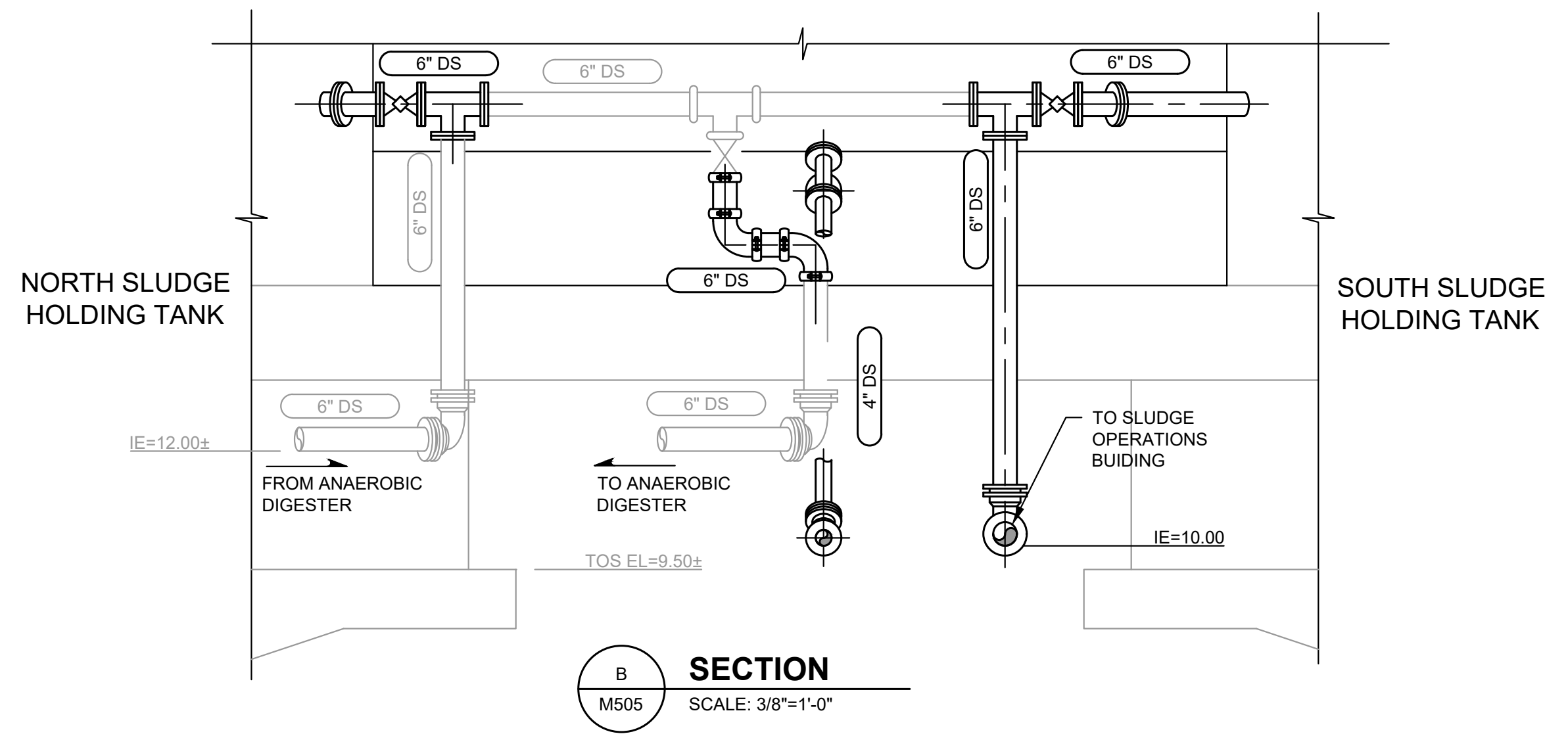
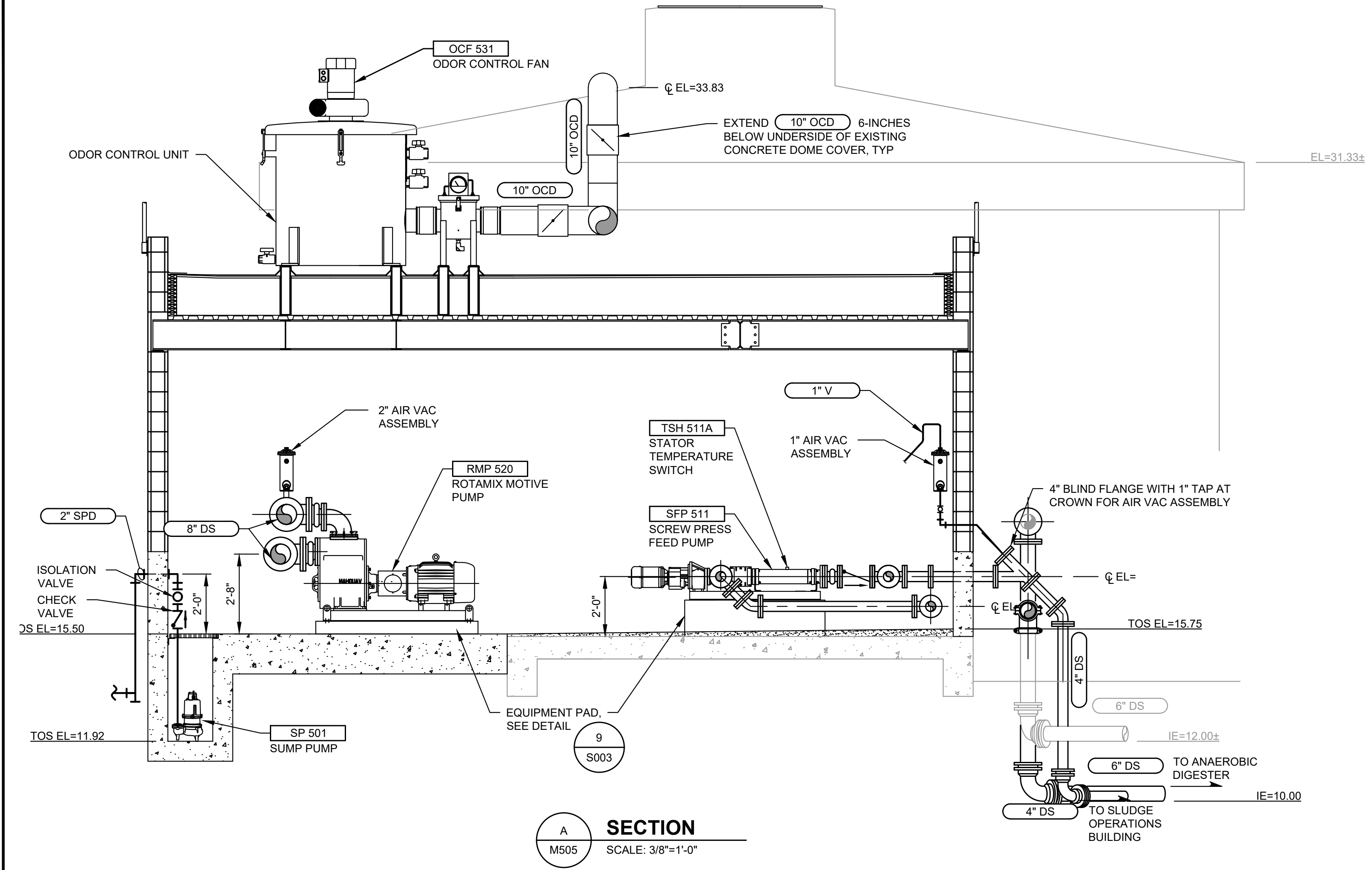
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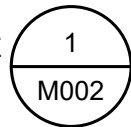
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 FILE: SHT\_MOD\_SECTIONS.DWG



**MECHANICAL**

**SLUDGE HOLDING TANK FACILITIES SECTIONS**



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  - FOR HVAC PLAN, SEE SHEET H501.
  - FOR PIPE PENETRATIONS, SEE 
  - FOR BUILDING MODIFICATIONS, SEE STRUCTURAL SHEETS

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ENVIRONMENTAL SOLUTIONS

OFFERING A COMPLETE LINE OF  
ODOR CONTROL PRODUCTS AND ACCESSORIES



# V1-TM

The V1-TM is a low cost, simple odor control system that utilizes activated carbon – sometimes in conjunction with a secondary polishing media to remove odor.

- Simple and easy to install and operate
- High efficiencies of H<sub>2</sub>S and organic odor removal
- Perfect for applications between 50 and 1500 CFM
- High quality FRP construction manufactured to exceed industry standards

[WWW.ECS-ENV.COM](http://WWW.ECS-ENV.COM)

# V1-TM

**SIMPLE, EASY, COST EFFECTIVE SOLUTION UP TO 3000 CFM**



## FEATURES

### **Low Cost**

### **No Chemicals**

### **High-Quality Construction**

### **Industry Standard**

### **Design Basis**

### **High Quality Media**

### **High Reliability**

### **Options Available**

## BENEFIT

V1-TM systems can economically treat up to 1500 cfm. Capital costs are reduced because of unit simplicity.

Uses carbon media to treat odor compounds, no chemicals or additives are required.

Manufactured using high-quality FRP components. Full 100-mil corrosion barriers on all surfaces exposed to the corrosive environment

Systems are sized to keep bed velocities between 50 and 60 f/m. Standard contact time for all V1 units is 3 seconds.

The ECS V1 is available with a wide variety of media including Calgon Minotaur, one of only two A-Grade carbons with a .3 H<sub>2</sub>S capacity and Calgon Centaur, a water regenerable carbon with ultimate H<sub>2</sub>S capacity of .69

ECS carbon units require no acclimation time and can operate intermittently.

V1-TM deep beds are available in a number of options

- Custom colors available
- Sound attenuation packages (enclosure and silencer)
- Single or three phase operation

## **ECS Offers the Following Complete Line of Odor Control Products**

- V1 Single Bed
- V2 Dual-Bed
- VX Radial Flow
- X-Pac Chemical Scrubber
- BioPure Biofilter Media
- FRP Ductwork Systems
- AMCA Certified Dampers
- Grease Filter / Mist Eliminators
- Control Panels
- FRP Fans
- Activated Carbon Media
- FRP Chemical Storage Tanks
- FRP Hoods / Covers
- Sound Enclosures and Silencers
- Field Services

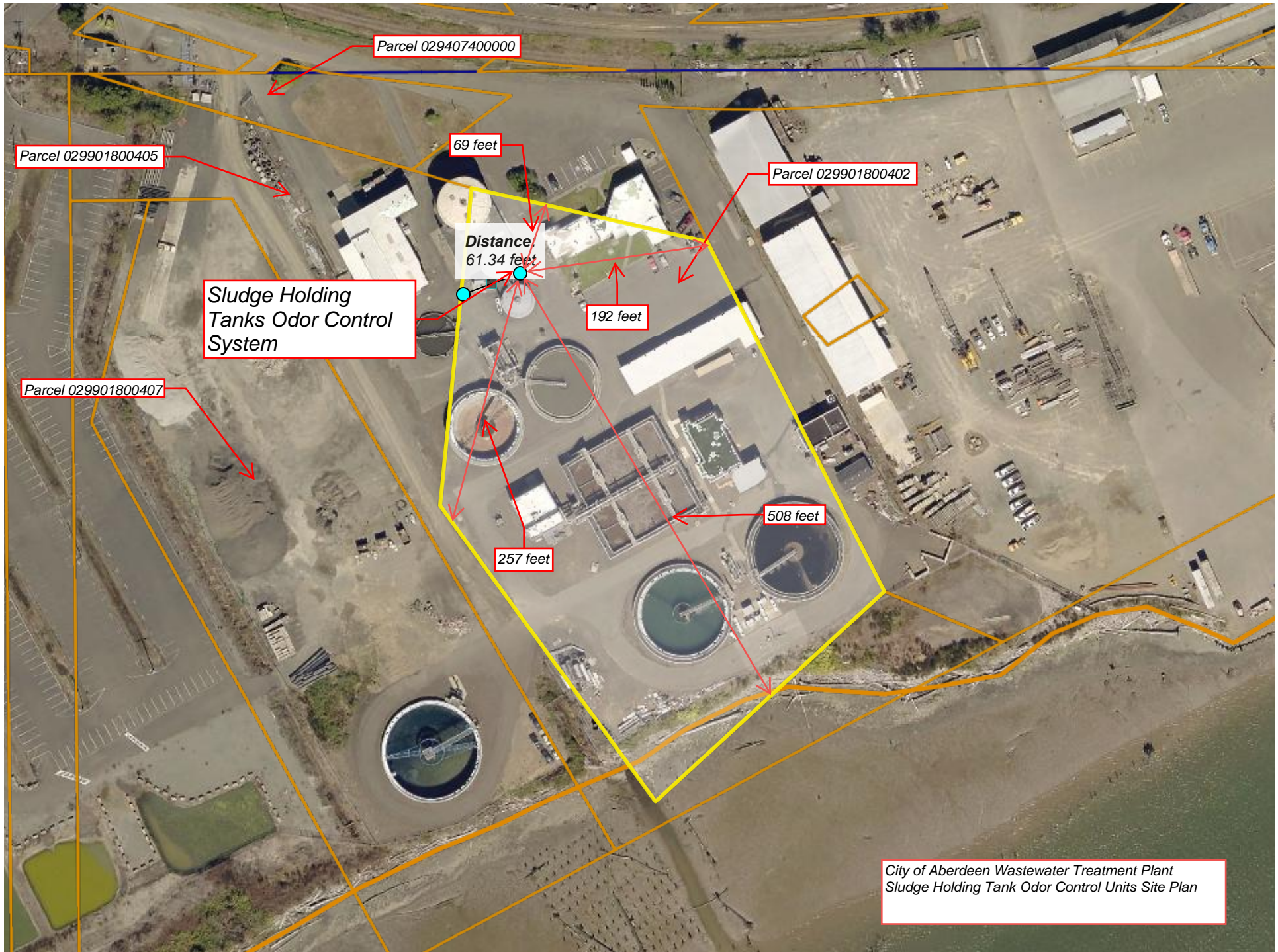


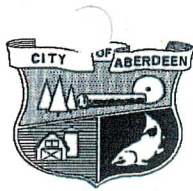
ECS is based out of a 100,000 sq/ft manufacturing / design facility located in central Texas.

We offer a complete line of odor control equipment and services including carbon adsorbers, wet scrubbers, biofilters with the unique capability to manufacture and supply system components.

**P.O. BOX 127 / 2201 TAYLORS VALLEY RD / BELTON, TX 76513**  
**P. 254.933.2270 / F. 254.933.2212**

**WWW.ECS-ENV.COM**





## ABERDEEN WWTP INFLUENT SCREENING AND INFLUENT PUMP STATION IMPROVEMENTS

Adoption of Existing Environmental Document

Adoption for  DNS  EIS  Other

**Description of Proposal:** The City of Aberdeen issued an MDNS on September 2, 2021 for the project title “Aberdeen WWTP Influent Screening and Influent Pump Station Improvements”. The proposed project included components which were identified as Capital Improvement Projects (CIP) WW-5, WW-7 and WW-9 in the 2020 *Regional General Sewer – Wastewater Facility Plan* (Facility Plan).

Subsequent to the preparation of the SEPA Checklist for the “Aberdeen WWTP Influent Screening and Influent Pump Station Improvements” project the City received funding from the Department of Ecology for the design and construction of additional improvements. The additional improvements include the components of CIP WW – 6 – “Critical WWTP Improvements” project included in the *Facility Plan*.

The Department of Ecology recommended the City incorporate the project components included in the “Influent Screening and Influent Pump Station Improvements” project and the “Critical WWTP Improvements” project into a single construction project. The additional components that will be added to the project include work at the existing Primary Anaerobic Digester, the Digester Building, the existing North and South Sludge Holding Tanks, the existing gravity thickener, the Sludge Operations Building and electrical infrastructure improvements.

Per WAC 197-11-600(4) an existing environmental document may be used by the City to meet its responsibilities under SEPA. In addition, per WAC 197-11-600(4)(c), an addendum that adds analyses or information about a proposal but does not substantially change the analysis of significant impacts and alternatives in the existing environmental document can be prepared. The additional items of work discussed above are located on the site that was the subject of the MDNS issued September 2, 2021 and are not anticipated to substantially change the analysis of significant impacts and alternatives discussed in the original SEPA checklist.

**Proponent:** City of Aberdeen  
Rick Sangder, City Engineer  
200 East Market Street  
Aberdeen, WA 98520  
[rsangder@aberdeenwa.gov](mailto:rsangder@aberdeenwa.gov)  
(360) 537-3228

**Location of current proposal:** The site located at 1205 W. State Street, parcel #029901800402 located in the City of Aberdeen, Grays Harbor County, Washington.

**Adoption:** *Aberdeen WWTP Influent Screening and Influent Pump Station Improvements* MDNS

**Lead Agency:** The City of Aberdeen, acting as lead agency pursuant to WAC 197-11-926(1), has determined that this proposal does not represent a probable significant adverse impact on the environment.



This decision is based upon a review of the completed environmental checklist and other information on file and available for review either at the City of Aberdeen, Community Development Department (2<sup>nd</sup> floor), 200 East Market Street(m-f 8 am to 5 pm) or it can be reviewed online at <https://ci-aberdeen-wa.smartgovcommunity.com/PublicNotice/PublicNoticeHome>. Click on the accept tab and all documents for this application are available by opening permit no. 2021-1610 and the SEPA Checklist Addendum which is attached.

The City of Aberdeen has identified and adopted this document as being appropriate for this proposal after independent review. The document meets the City's environmental review needs for the current proposal and will accompany the proposal to the decision maker.

Written comments to the City regarding this determination must be submitted, in writing, no later than March 30, 2022 at 5:00 pm. All comments should be addressed to the responsible official at the address or email below:

**Responsible Official:** Lisa Scott   
**Address:** Community Development Department  
200 East Market Street  
Aberdeen, Washington 98520-5242  
**Phone:** (360) 537-3238  
**Email:** lscott@aberdeenwa.gov  
**Date:** July 20, 2023

## SEPA Checklist Addendum

### Aberdeen WWTP Influent Screening and Influent Pump Station Improvements

The City of Aberdeen issued an MDNS on September 2, 2021 for the project titled “Aberdeen WWTP Influent Screening and Influent Pump Station Improvements”. The proposed project included the following components which were identified as Capital Improvement Projects (CIP) WW-5, WW-7 and WW-9 in the 2020 *Regional General Sewer – Wastewater Facility Plan (Facility Plan)*. All of the proposed improvements are located at the City of Aberdeen Wastewater Treatment Plant (WWTP), 1205 W State Street, Aberdeen, WA 98520.

- Modifications to the WWTP’s existing Headworks structure, including installation of new screening and sampling equipment;
- Construction of a new, above-grade, small (<750 sf) electrical building immediately to the southwest of the existing Operations Building;
- Rehabilitation of influent pump station wet well including application of corrosion resistant and water proof coatings;
- Relocation of existing motor control and electrical equipment from the existing Operations Building to the new Electrical Building;
- Modifications to three existing influent pump force mains near the existing Headworks structure;
- Modifications to the Headworks structure to provide flood protection up to elevation 17.7, or 3-feet above the FEMA 100-year floodplain;
- Construction of a new, below-grade, Plant Drain Pump Station;
- Construction of new force main from Plant Drain Pump Station to existing treatment plant headworks;
- Construction of new primary sludge conveyance pipelines from primary sludge pump rooms in the headworks structure to the hydrocyclone grit separation process located in the solids handling building;
- Replacement of the existing single grit hydrocyclone with two smaller grit hydrocyclones and a new gravity conveyance pipeline from the hydrocyclone overflow to the existing gravity thickener;
- Modifications to the existing Operations Building to provide a separate entrance to the existing Influent Pump Station drywell;
- Heating, ventilation, and air conditioning (HVAC) modifications to the Headworks structure and Operations Building including influent pump station wet well and dry well;
- Associated electrical modifications to the Headworks structure, Operations Building, and Plant Drain Pump Station.

Subsequent to the preparation of the SEPA Checklist for the “Aberdeen WWTP Influent Screening and Influent Pump Station Improvements” project the City received funding from the Department of Ecology for the design and construction of additional improvements. The

additional improvements include the components of CIP WW-6 – “Critical WWTP Improvements” project included in the *Facility Plan*. The Department of Ecology recommended the City incorporate the project components included in the “Influent Screening and Influent Pump Station Improvements” project and the “Critical WWTP Improvements” project into a single construction project. The additional components that will be added to the project include work at the existing Primary Anaerobic Digester, the Digester Building, the existing North and South Sludge Holding Tanks, the existing gravity thickener, the Sludge Operations Building and electrical infrastructure improvements. The additional components include the following. All components of CIP WW-6 are located at the City of Aberdeen WWTP.

- Removal and disposal of approximately 100,000 gallons of digested biosolids and grit from the primary anaerobic digester. The removed material will be hauled off-site for disposal at a permitted site;
- Repair of the concrete dome cover of the Primary Anaerobic Digester including sealing cracks on the interior and exterior, application of a new elastomeric coating on the exterior and application of a new coating system to the underside of the cover and the upper portion of the interior wall surfaces;
- Replacement of the existing Primary Anaerobic Digester gas handling equipment and installation of a new digester level monitoring system;
- Repair of the existing Digester Building including sealing gaps between the walls and ceiling, filling in the wall currently occupied by a door, installation of a new membrane roof and replacement of the existing roof ventilator and installation of new supply and exhaust fans;
- Replacement of the existing sludge transfer pump in the Digester Building and repurposing of the existing magnesium hydroxide storage tank to a hauled sludge storage tank;
- Removal and disposal of approximately 16,000 gallons of digested biosolids and grit from the bottom of the South Sludge Holding Tank and a small volume of digested biosolids and grit from the bottom of the North Sludge Holding Tank. The removed material will be hauled off-site for disposal at a permitted site;
- Recoating of the exterior of the concrete dome roofs of the North and South Sludge Holding Tanks with an elastomeric coating;
- Installation of a sludge mixing pump (shared between the North and South Sludge Holding Tanks) and mixing nozzles in each of the sludge holding tanks. The walls and roof of the existing building between the two sludge holding tanks will be demolished and reconstructed as a larger structure to provide space for installation of the new screw press feed pumps, mixing pump and odor control systems for the sludge holding tanks. A flood gate and sump pumps will be installed in the new addition to provide flood protection in accordance with the AMC for new construction;
- Installation of new level monitoring systems in the North and South Sludge Holding Tanks;
- Installation of a new HVAC system in the building between the two sludge holding tanks;
- Installation of head space venting and an activated carbon odor control vessel for each of the sludge holding tanks;
- Replacement of the existing gravity thickener mechanism and rehabilitation of the existing gravity thickener structure;

- Installation of a gravity thickener bypass pipe;
- Installation of two progressing cavity pumps in the Sludge Pumping and Disinfection Building to pump waste activated sludge to primary anaerobic digester;
- Replacement of two existing rotary lobe thickened primary sludge pumps with progressing cavity pumps and an in-line grinder on the common suction line to the two pumps;
- Revisions to the thickened primary sludge piping to and from the gravity thickener and the non-potable water system piping to the gravity thickener;
- Replace the existing unused ferric chloride storage tank in the Sludge Operations Building with a new 5,000 gallon magnesium hydroxide storage tank;
- Replace existing Unit Substation 2 with a new pad mounted transformer located adjacent to the new electrical building included in the Influent Screening and Influent Pump Station Improvements project;
- Replace existing Switchboard 1 with a new switchboard located inside the new electrical building;
- Install a new automatic transfer switch, manual transfer switch and temporary generator plug-in connection for the existing 500-kW generator in the new electrical building;
- Make revisions to the existing medium voltage switchboard and 460-volt power distributions systems to accommodate existing and proposed equipment. Revisions include a new primary switch in the existing unit Substation 1 to feed the new Substation 2 transformer.

Per WAC 197-11-600(4) an existing environmental document may be used by the City to meet its responsibilities under SEPA. In addition, per WAC 197-11-600(4)(c), an addendum that adds analyses or information about a proposal but does not substantially change the analysis of significant impacts and alternatives in the existing environmental document can be prepared. The additional items of work discussed above are located on the site that was the subject of the MDNS issued September 2, 2021 and are not anticipated to substantially change the analysis of significant impacts and alternatives discussed in the original SEPA checklist. Additional information pertinent to the responses in the original SEPA checklist are discussed below.

## ***A. Background***

3. Address and phone number of applicant and contact person:

Nick Bird, P.E.  
 City Engineer  
 200 East Market  
 Aberdeen, WA 98520

(360) 537-3218  
[nbird@aberdeenwa.gov](mailto:nbird@aberdeenwa.gov)



4. Date checklist prepared:

February 24, 2023

6. Proposed timing or schedule (including phasing, if applicable):

Submit Predesign Report to the City ..... February 2023  
Desktop Cultural Resource Review Addendum ..... April 2023  
Submit Plans and Specifications to City ..... April 2023  
Submit Plans and Specifications to Ecology ..... April 2023  
Project Advertised..... May 2023  
Bids Opened..... June 2023  
Project Construction..... July 2023

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Antiquity Consulting (Olympia, WA, 360-819-4998) is preparing an addendum to the Desktop Cultrual Resource Review completed in June 2021 that includes the additional areas of the WWTP that will be affected by construction.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Additional components that will be included in this project include:

- Removal and disposal of approximately 100,000 gallons of digested biosolids and grit from the primary anaerobic digester. The removed material will be hauled off-site for disposal at a permitted site;
- Repair of the concrete dome cover of the Primary Anaerobic Digester including sealing cracks on the interior and exterior, application of a new elastomeric coating on the exterior and application of a new coating system to the underside of the cover and the upper portion of the interior wall surfaces;
- Replacement of the existing Primary Anaerobic Digester gas handling equipment and installation of a new digester level monitoring system;
- Repair of the existing Digester Building including sealing gaps between the walls and ceiling, filling in the wall currently occupied by a door, installation of a new membrane

- roof and replacement of the existing roof ventilator and installation of new supply and exhaust fans;
- Replacement of the existing sludge transfer pump in the Digester Building and repurposing of the existing magnesium hydroxide storage tank to a hauled sludge storage tank;
  - Removal and disposal of approximately 16,000 gallons of digested biosolids and grit from the bottom of the South Sludge Holding Tank and a small volume of digested biosolids and grit from the bottom of the North Sludge Holding Tank. The removed material will be hauled off-site for disposal at a permitted site;
  - Recoating of the exterior of the concrete dome roofs of the North and South Sludge Holding Tanks with an elastomeric coating;
  - Installation of a sludge mixing pump (shared between the North and South Sludge Holding Tanks) and mixing nozzles in each of the sludge holding tanks. The walls and roof of the existing building between the two sludge holding tanks will be demolished and reconstructed as a larger structure to provide space for installation of the new screw press feed pumps, mixing pump and odor control systems for the sludge holding tanks. A flood gate and sump pumps will be installed in the new addition to provide flood protection in accordance with the AMC for new construction;
  - Installation of new level monitoring systems in the North and South Sludge Holding Tanks;
  - Installation of a new HVAC system in the building between the two sludge holding tanks;
  - Installation of head space venting and an activated carbon odor control vessel for each of the sludge holding tanks;
  - Replacement of the existing gravity thickener mechanism and rehabilitation of the existing gravity thickener structure;
  - Installation of a gravity thickener bypass pipe;
  - Installation of two progressing cavity pumps in the Sludge Pumping and Disinfection Building to pump waste activated sludge to primary anaerobic digester;
  - Replacement of two existing rotary lobe thickened primary sludge pumps with progressing cavity pumps and an in-line grinder on the common suction line to the two pumps;
  - Revisions to the thickened primary sludge piping to and from the gravity thickener and the non-potable water system piping to the gravity thickener;
  - Replace the existing unused ferric chloride storage tank in the Sludge Operations Building with a new 5,000 gallon magnesium hydroxide storage tank;
  - Replace existing Unit Substation 2 with a new pad mounted transformer located adjacent to the new electrical building included in the Influent Screening and Influent Pump Station Improvements project;
  - Replace existing Switchboard 1 with a new switchboard located inside the new electrical building;
  - Install a new automatic transfer switch, manual transfer switch and temporary generator plug-in connection for the existing 500-kW generator in the new electrical building;
  - Make revisions to the existing medium voltage switchboard and 460-volt power distributions systems to accommodate existing and proposed equipment. Revisions

include a new primary switch in the existing unit Substation 1 to feed the new Substation 2 transformer.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

All improvements will take place at the WWTP, located at 1205 W State Street, Aberdeen, WA 98520. Latitude 46.96572N, Longitude -123.82885W. The map below highlights the additional areas of work (outlined in red). The majority of the additional areas of work take place on or within existing structures.



## ***B. Environmental Elements***

### ***8. Land and Shoreline Use***

c. Describe any structures on the site.

Correction to the structure described as (4) Old Anaerobic Digesters. The Old Anaerobic Digesters were converted to sludge holding tanks in the early 1990s. The tanks have not been used as sludge holding tanks for several years.

d. Will any structures be demolished? If so, what?

The roof and walls of the small building between the Sludge Holding Tanks will be demolished. The building will be rebuilt and expanded to house new screw press feed and mix pumps and odor control systems for both tanks. The new structure will be protected to an elevation of 17.70 as required by the AMC.



**Legend**

- Aberdeen Animal Control Facility
- Quigg Bros