

# HUNGERFORD & TERRY, INC.

*Manufacturers of Water Treating Equipment*  
226 Atlantic Avenue  
Clayton, NJ 08312-0650  
Phone (856) 881-3200 Fax (856) 881-6859

## DOCUMENT TRANSMITTAL

**URGENT ATTENTION REQUIRED!**

**File No.:** SUB\_M345-05

**To:** Steckbeck Engineering & Surveying, Inc.  
279 N. Zinns Mill Road  
Lebanon, PA 17042

**Date:** April 9, 2024  
**Page:** 1 of 1  
**H&T Contract No.:** M-345

**Attention:** Paul Lutzkanin, PE, CSE  
**Email:** [plutzkanin@steckbeck.net](mailto:plutzkanin@steckbeck.net)

**Job:** Fredericksburg Sewer & Water Auth.  
Fredericksburg, PA

*We are:*

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Submitting for approval | <input type="checkbox"/> Sending as requested |
| <input type="checkbox"/> Resubmitting for approval          | <input type="checkbox"/> _____                |
| <input type="checkbox"/> Sending for your information       |   |

**The following**  enclosed  under separate cover

Format	Dwg. No.	Rev.	Title or Description
PDF			OIT Screens

**Remarks:**

- Please return to us, as soon as possible, one copy of each drawing with your approval and or comments noted.
- Fabrication is proceeding in accordance with these drawings.
- Fabrication is being held pending return of approved prints. Delay in returning drawings will extend the delivery schedule.
- Fabrication of major equipment is proceeding in accordance with these drawings.
- Minor Equipment is being held pending return of approved prints.

**REPRESENTATIVE:**

**HUNGERFORD & TERRY, INC.**



Frank L. Walls  
Manager, Electrical Department  
[fwalls@hungerfordterry.com](mailto:fwalls@hungerfordterry.com)

# ***OIT Screens***

**FOR: Fredericksburg Sewer & Water Authority  
Fredericksburg, PA**

REVIEWED     REVISE AND RESUBMIT  
 REJECTED     FURNISH AS CORRECTED

Corrections or comments on shop drawings during this review do not relieve the Contractor from compliance with the drawings and/or specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. The contractor is responsible for: confirming and correlating all dimensions and quantities; selecting fabrication processes and techniques of construction; coordinating his work with that or all other trades; and performing his work in a safe and satisfactory manner.

Date: April 10, 2024 By: Paul Lutzkanin, P.E.

STECKBECK ENGINEERING & SURVEYING, INC.



**HUNGERFORD & TERRY, INC.**

226 Atlantic Avenue  
Clayton, New Jersey

Contract No.: **M-345**  
Drawing Series No.: **33552**  
Submitted: **April 9, 2024**

# Main Menu

09:10:00 AM  
03/26/24

Overview

Filter 1

Filter 2

Filter 3

Filter 4

Wash  
Sequencer

Wash  
Common

Date & Time

Active  
Alarms

Historical  
Alarms

**Filters 4, 1, 2 Selected**

Filter	Status	Filter Flow
Filter 1	Service	Filter 1 Flow FIT-11 -123 GPM
Filter 2	Off	Filter 2 Flow FIT-21 -123 GPM
Filter 3	Standby	Filter 3 Flow FIT-31 -123 GPM
Filter 4	Wash	Filter 4 Flow FIT-41 -123 GPM

Sequential Wash Mode

PB Start  
Press For Auto Start

Air Scour Selection

Air Scour Omitted  
Press To Include

Current Wash Step

Isolation Delay

Sequential Wash Start

Total System Flow

-1234 GPM

Batch Throughput Preset

-1234 kGAL

Batch Remaining

1234512 GAL

Run Time Preset

-123 hrs

Run Time Remaining

Hours	Minutes
-123	-12

## ***Confirm Wash Start***

Wash  
Start

Return to  
Overview

To  
Sequencer

# Filter 1

Current Wash Step

Status  
**Service**

Filter Mode  
Off  
Press For Auto

Filter 1 Flow  
FIT-11  
-123 GPM

Inlet V. CV-11

Open

Open

Auto

Close

Closed

Backwash Outlet V. CV-14

Failed To Open

Open

Auto

Close

Failed To Close

Air Pressurizing V. CV-16

Open

Open

Auto

Close

Closed

Draindown V. CV-19

Open

Open

Auto

Close

Closed

Outlet V. CV-12

Open

Open

Auto

Close

Closed

Rinse V. CV-15

Open

Open

Auto

Close

Closed

Air Wash Inlet V. CV-18

Open

Open

Auto

Close

Closed

Valve Failed To Open  
Reset PB

Backwash Inlet / Slow Refill V. CV-13

Valve Position

-123 %

Manual Setpoint

-123%

Manual

Auto

Close

Failed To Open  
Failed To Close

Common Air/Water Wash & Refill Setpoint

-123 %

Common Backwash Setpoint

-123 GPM

CV-13 Modulating Controls

# Backwash Inlet / Slow Refill V CV-13

09:20:00 AM  
03/26/24

Back To Filter 1

Status  
Service

Filter 1 Flow  
FIT-11  
-123 GPM

Backwash Control Settings

Preloading Value -123 %	Preloading Time -12 Sec
Deadband High -12 GPM	Deadband Low -12 GPM
Open Correction -1 %	Close Correction -1 %
Correction Interval Timer -12 Sec	

Backwash Inlet / Slow Refill V.  
CV-13

Valve Position  
-123 %

Manual Setpoint  
-123%

Manual  
Auto  
Close

Failed To Open  
Failed To Close

Common Air/Water Wash & Refill Setpoint  
-123 %

Common Backwash Setpoint  
-123 GPM

# Filter Wash Sequence

Filter 4  
Washing

Step Timer

Prolong  
Press For  
Auto

Step  
Advance

Wash  
Abort

Prolong Timer

minutes	seconds
-1234	-12

Wash  
Failure  
Reset

Filter 4 Flow  
FIT-41

-123 GPM

Common Air/Water  
Wash & Refill Setpoint

-123 %

Common  
Backwash Setpoint

-123 GPM

Step	Time Seconds Remaining	Time Remaining (min)	Timer Preset (min)
Isolation Delay	-12	-12	-12
Depressurize	-12	-12	-12
Draindown	-12	-12	-12
Air Wash	-12	-12	-12
Air/ Water Wash	-12	-12	-12
Slow Refill	-12	-12	-12
Backwash	-12	-12	-12
Bed Settle	-12	-12	-12
Rinse	-12	-12	-12
Wash Interval	-12	-12	-12

## ***Confirm Wash Sequence Step Advance***

Current Wash Step

Isolation Delay

Step  
Advance

Return To  
Sequencer

## ***Confirm Wash Abort***

### **CAUTION:**

**Wash Abort will end the wash sequence where it currently is and turn the unit off.**

**Beware of the following:**

**-The filter might not be fully cleaned, as the cycle will be interrupted.**

**-If the filter is drained down, it must be refilled before returning to "Auto Mode" . Not doing this will damage the media.**

Current Wash Step

Isolation Delay

Wash  
Abort

Return To  
Sequencer

## Air Blowers

### Air Blower B-1

Running

On

Local Switch  
In Remote

Auto

Motor Overload

Off

Failed

Fail Reset

B-1

Alternate

B-2

B-1 Selected

Alternate

### Air Blower B-2

Off

On

Local Switch  
Not In Remote

Auto

Motor Overload

Off

Failed

Fail Reset

## Common Backwash Flow Setpoints

Air/Water Wash & Refill Setpoint

-12%

Backwash Setpoint

-123 GPM

## Common Backwash Flow Checking Setpoints

Backwash Flow High Setpoint

-1234 GPM

Backwash Flow Low Setpoint

-123 GPM

Filter 4  
Washing

Filter 4 Flow  
FIT-41

-123 GPM

Current Wash Step

Isolation Delay

# Date & Time Set

Current PLC Date & Time		
Year	Month	Day
-1234	-12	-12
Hour	Minute	Second
-12	-12	-12

Set PLC Date & Time		
Set Year -1234	Set Month -12	Set Day -12
Set Hour -12	Set Minute -12	Set Second -12
Set PLC Date & Time		

Main Menu

Historical Alarms

# Active Alarms

09:33:00 AM  
03/26/24

Message

Activated

▶ Message-1	24-03-26 09:33:00 AM
Message-2	24-03-26 09:33:00 AM
Message-3	24-03-26 09:33:00 AM
Message-4	24-03-26 09:33:00 AM

Line Up

Line Down

Confirm

Confirm All

