

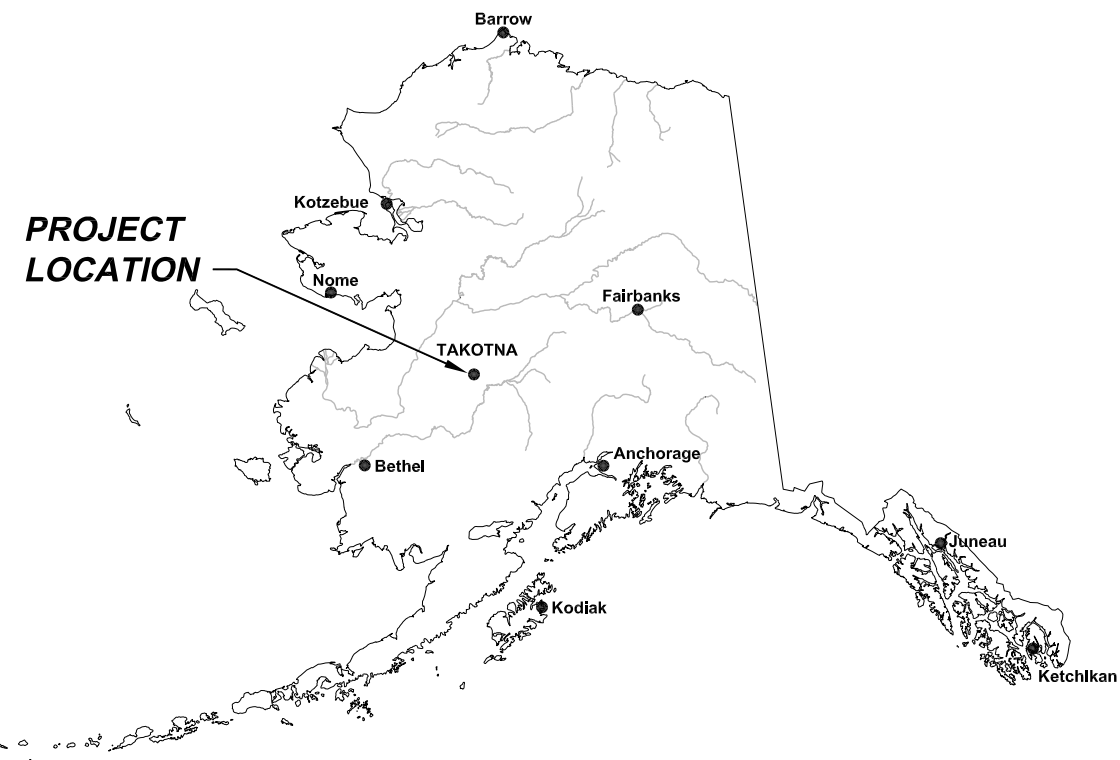
# **TAKOTNA TRIBAL COUNCIL**

## **TAKOTNA WATER TREATMENT PLANT**

### **FILTER BACKWASH DOSING TANK**

#### **TAKOTNA, ALASKA**

**CONSTRUCTION DRAWINGS**  
**SEPTEMBER 19, 2014**



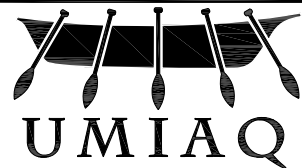
#### **INDEX TO DRAWINGS**

COVER SHEET

**CIVIL**

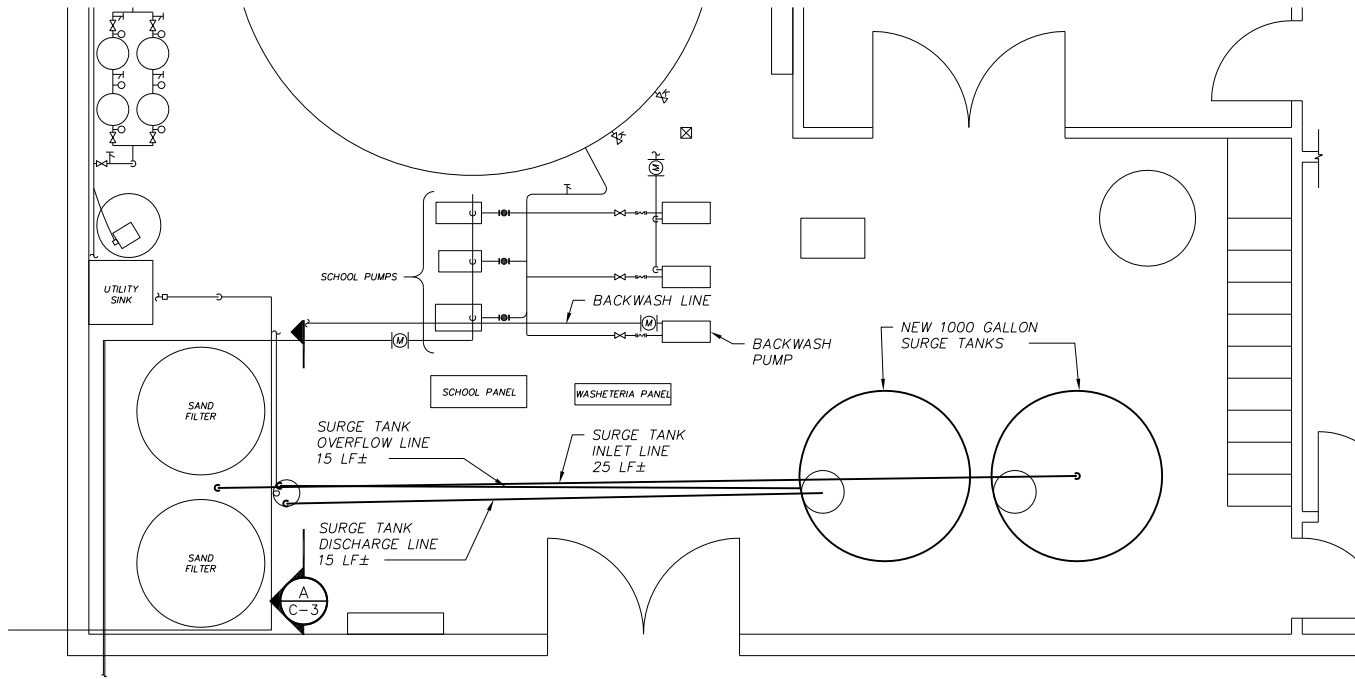
C-1 DOSING TANK SITE PLAN AND DETAILS

#### **CONSULTANTS**

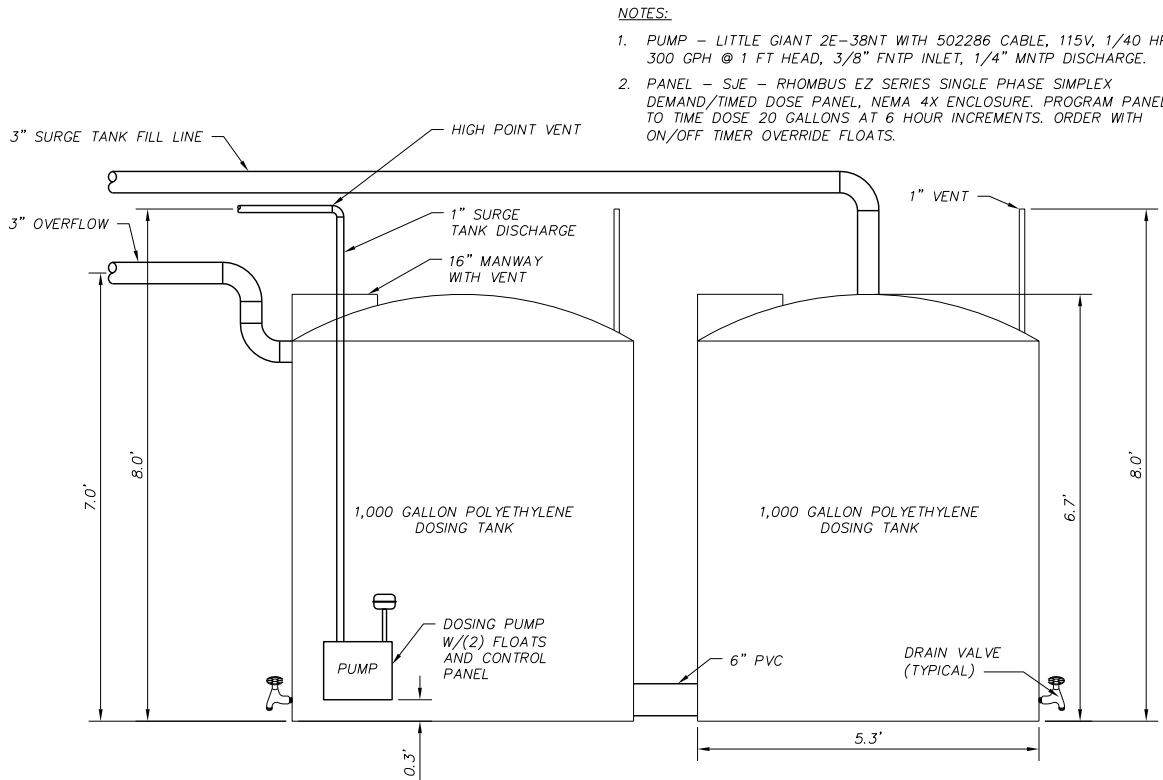


6700 Arctic Spur Road - Anchorage, AK 99518 - (907) 877-8220

FILE: M:\Design\Engineering\PROJECTS\70108.13 Takotna Washeteria Filter and Septic DESIGN\Drawings\Civil\Sewer\70108.13 Details.dwg  
PRINTED: 09/19/2014 12:17 David Hardy LAYOUT: C-1 Dosing Tank Details



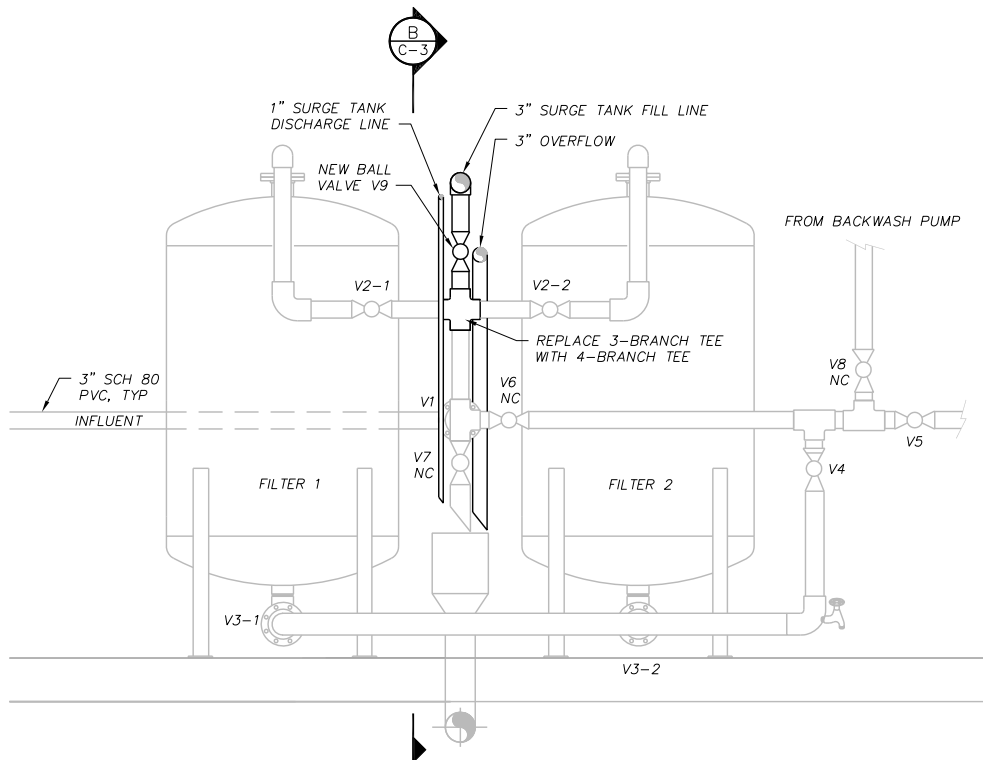
1 DOSING TANK PLAN VIEW  
C-3 SCALE: NTS



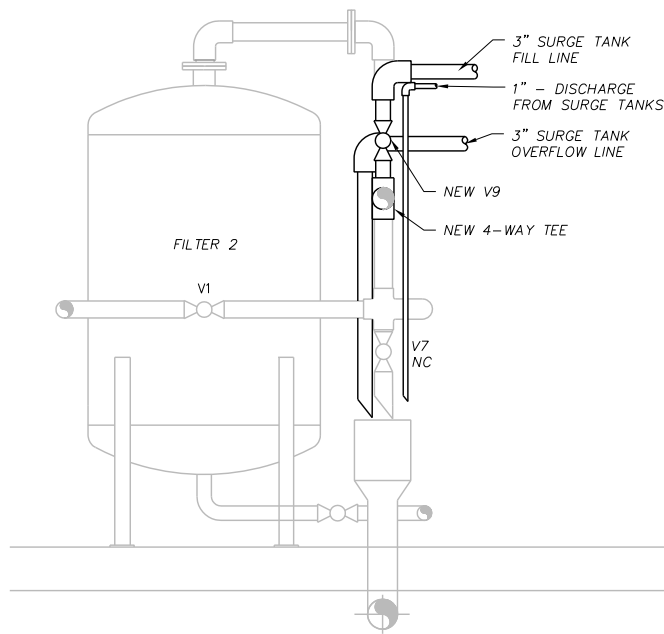
2 DOSING TANK DETAILS  
C-3 SCALE: NTS

#### GENERAL NOTES

- OWNER: VILLAGE OF TAKOTNA  
TRADITIONAL COUNCIL  
P.O. BOX 7529  
TAKOTNA, AK 99675  
CONTACT: 907-298-2212
- ELECTRIC UTILITY: TAKOTNA COMMUNITY ASSOCIATION INCORPORATED  
CONTACT: 888-856-6186
- ALL ADDITIVES AND MATERIALS USED FOR THE POTABLE WATER SYSTEM SHALL BE APPROVED FOR USE BY THE NATIONAL SANITATION FOUNDATION (NSF) STANDARDS, NSF 61, NSF 53, AS APPLICABLE..
- ALL MATERIALS FOR THE POTABLE WATER SYSTEM SHALL BE LEAD-FREE. ONLY LEAD FREE PIPE, FLUX, AND SOLDER SHALL BE USED.
- DESIGN DRAWINGS ARE SCHEMATIC IN NATURE, THEY ARE NOT INTENDED TO BE DETAILED DRAWINGS.
- PROVIDE BACKFLOW AND CROSS CONNECTION CONTROL PER 18AAC80.
- ALL PIPING MATERIALS TO BE SCHEDULE 80 PVC.
- DISINFECT SYSTEMS AND DISPOSE OF NEUTRALIZED WATER PER THE REQUIREMENTS OF ANSI/AWWA C651, C652, C653. PRESSURE TESTING MAY BE CONDUCTED AT THE SAME TIME AS DISINFECTION PER ASNI/AWWA C605.



A BACKWASH PIPING SECTION  
C-3 SCALE: NTS



B BACKWASH PIPING SECTION  
C-3 SCALE: NTS

#### OPERATION SEQUENCE

##### NORMAL OPERATION:

- OPEN: V1 INFLUENT LINE  
V2-1 FILTER NO. 1 INFLUENT  
V2-2 FILTER NO. 2 INFLUENT  
V3-1 FILTER NO. 1 EFFLUENT  
V3-2 FILTER NO. 2 EFFLUENT  
V4, V5  
CLOSE: ALL OTHERS (V6, V7, V8, AND V-9)

##### BACKWASH OPERATION:

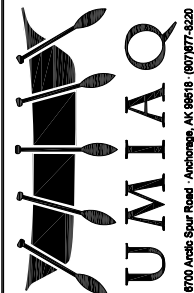
- WELL PUMP OFF  
CLOSE: V1 INFLUENT LINE  
V5  
OPEN: V8 BACKWASH LINE  
V7 BACKWASH DRAIN LINE  
V9 SURGE TANK FILL LINE  
BACKWASH PUMP ON

##### BYPASS FILTERS OPERATION:

- CLOSE: V2-1 FILTER NO. 1 INFLUENT  
V2-2 FILTER NO. 2 INFLUENT  
V4, V7, V8, V9  
OPEN: V1 INFLUENT LINE  
V6, V5

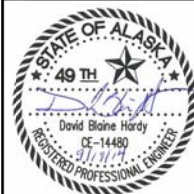
TAKOTNA TRIBAL COUNCIL

FILTER BACKWASH DOSING TANK  
TAKOTNA, ALASKA



CONSTRUCTION  
DRAWINGS

REVISIONS:



DRAWN BY: DBH  
CHECKED BY: MEW  
DATE: 9/19/2014  
JOB NUMBER: 70108.13  
SCALE: AS SHOWN

DRAWING TITLE:  
DOSING TANK SITE PLAN  
AND DETAILS

SHEET: OF

C-1