

PLUM CREEK WATER PURIFICATION FACILITY AMMONIA CONVERSION PROJECT

TOWN COUNCIL
JUNE 16, 2020



AMMONIA CONVERSION

PROJECT OVERVIEW

- Currently use Ammonium Hydroxide
- Convert to Liquid Ammonium Sulfate (LAS)
 - more stable, less toxic, and less costly
- Safer for both staff and the public
- Ammonia + Chlorinated Water = Chloramines
- Chloramines used as disinfectant residual in water distribution system
- No local source for bulk LAS in 2013 when PCWPF completed
- A reliable local source of LAS now available

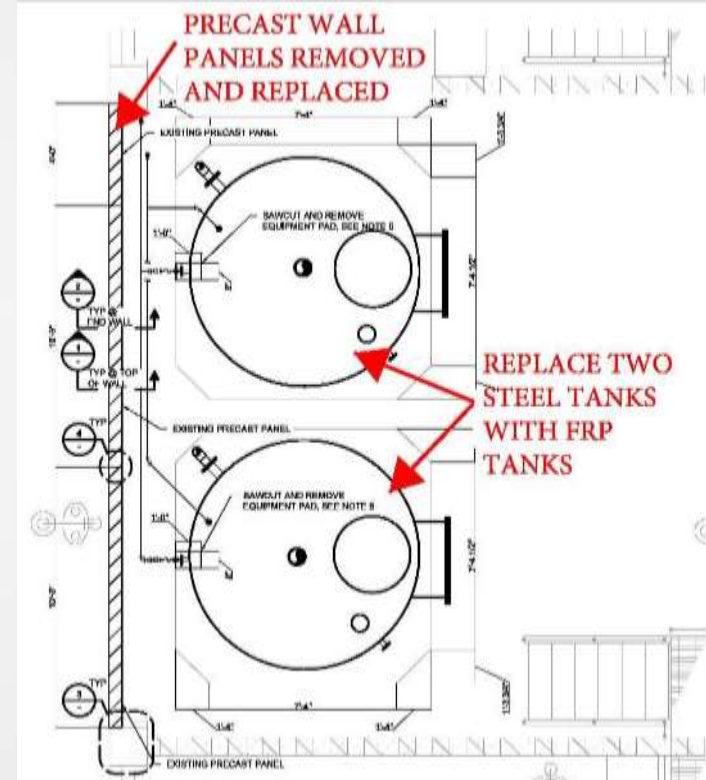


Project Site Map

AMMONIA CONVERSION

PROJECT OVERVIEW

- Remove & replace ammonia storage tanks



AMMONIA CONVERSION

PROJECT SUMMARY

- Create safer work environment
- Reduce Operation & Maintenance costs
- Payback period of approximately 14.5 years
- Maintain excellent water quality to distribution system
- Garney to complete Ammonia Conversion concurrent with PCWPF AT Project
- Contract price \$354,353 + 7% contingency
\$24,800 = \$379,153
- Anticipated completion by Nov 2020



Ammonium Hydroxide Storage Tanks



THANK YOU

QUESTIONS

- Recommended Motion: *"I move to approve Resolution 2020-057 as introduced by title."*