City of Marshall Wastewater Facility Upgrade September 2020



Grit Classifier Replacement Completed

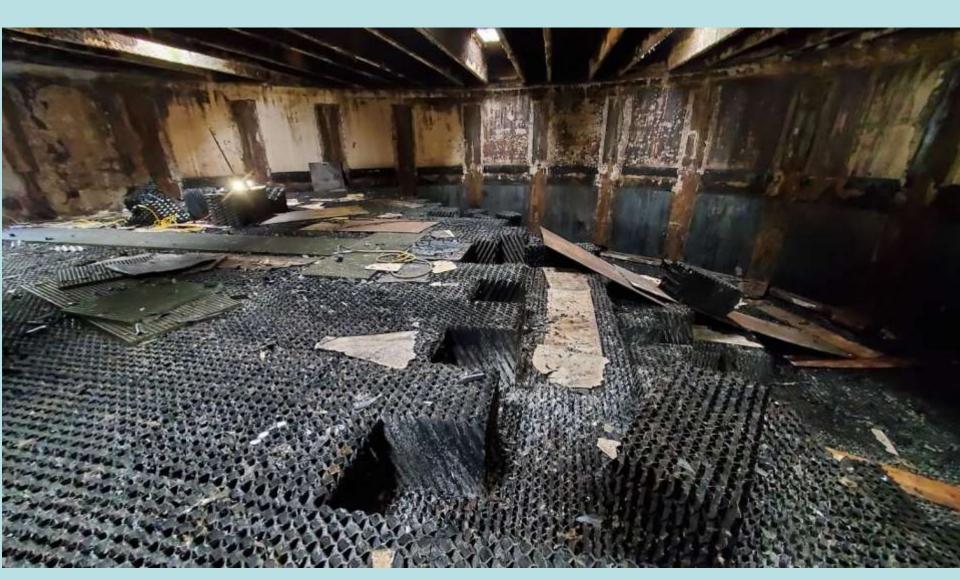


Trickling Filters Rehab

The West Trickling Filter media has been removed, interior walls and ceiling has been sand blasted and coated. New media and distributor are scheduled for placement in September. Once this is complete both **Trickling Filters will** be reroofed.



Trickling Filter Media Removal



Intermediate Clarifier Replacement

The Intermediate Clarifier is offline. A new scraper system and catwalk will be installed.



Activated Sludge Aeration Replacement

The Activated Sludge system is scheduled for mixing system to be replaced next spring.



Aeration Basin Mix System



Aeration Blowers Replacement



Aeration Blower Replacement

 New blowers are installed and are being wired and will be operational in late September.



Final Clarifier Pump Replacement

These pumps are on site and are scheduled for installation in the spring of 2021.



Additional Final Clarifier

The new clarifier is poured and is almost almost complete. Online this winter.



New Final Clarifier-Splitter Box Return Structure

New Biosolids Storage Tank



New Biosolids Storage Tank

- Mixing pumps and catwalks are in place.
- Electrical cabinets are installed.
- Piping is scheduled for September.



New Biosolids Storage Tank

 Mixing Systems are in place.



ATAD Jet Mix Pumps and Valves

ATAD
Pumps and
Valve
replacement
scheduled
for January
2021.



Biosolids Mixer and Valves

 Biosolids piping and valve replacement in Long Term **Storage Building** scheduled for December.



Post Aeration Replacement

Aeration mixing system scheduled for November.



Summary To Date

- Final Completion is scheduled for August of 2021. \$14,074,300 PFA Low Interest loan.
- To date everything is going very well.
- Many of the replacement equipment timelines are staggered to allow treatment to continue during construction. This can be very challenging.
- Project completion and stored materials are about 70% complete.

Questions?



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