

Update on TID Projects for Spring 2020 – May 20, 2020

There were two larger projects slated for the 2019-20 construction season.

East Horsefly Main Canal Pipeline:

Description: This pipeline extends the existing Purple Springs to Bonette Lake pipeline, upstream across the CPR tracks and Hwy 3 and to the top of the hill. A settling pond with gabion wall infiltration system is used to settle solids and filter weeds/algae and help balance flows before entering the pipeline. An overflow and emergency spill discharges to the existing canal above the concrete chute.

Rationale: This extra pressure to the existing pipeline adds about 1,600 acres capacity to the district. It also avoids the need for TID to install pipelines within federal lands in the grazing lease north of Purple Springs. Associated gates and controls at Lateral 7 and Lateral 2 will significantly reduce spill to the river and allow TID to expand our district again in the future. The Capital Asset Charges paid for these acres, plus farmer contributions toward their individual works and the raising of the East Horsefly Main Canal banks, along with IRP funding, significantly offset the installation costs.

Progress: The settling pond, gabion wall infiltration system, spillway, turnouts and pipeline down the hill are substantially complete. The casing pipe under the highway/railway is installed. The carrier pipe is installed, and final tie-ins completed and backfilled. The canal bank raising is substantially complete, control gates are being tuned and pond level sensor will be added soon. Repairs to a portion of the chute base and to the discharge pool have been completed. Cleanup items are being addressed prior to full demobilization.

Lateral 7 East Horsefly Pipeline:

Description: This pipeline starts in the NE corner of NW 3-10-15-4 and runs north across Hwy 3 and the CPR tracks to tie in to existing 7D and 7D-1 pipelines north of Lamb Weston. A settling pond with gabion wall infiltration system is used to settle solids and filter weeds/algae and help balance flows before entering the pipeline. The parallel canal allowed for inclusion of a silt bypass system to minimize future maintenance on the pond.

Rationale: The extra pressure will eliminate issues associated with inadequate pressure and intermittent weed and algae issues in the Lateral 7C, 7D and 7D-1 pipelines. Allocating flows to these deliveries will also free up capacity in the Lateral 7C canal that is a critical conveyance for filling Fincastle Reservoir. This project was prioritized to coincide with the completion of East Horsefly Main Pipeline (above) to maximize the capacity to redirect flows to Fincastle Reservoir that would otherwise be spilled to the Oldman River. This district funded capital project will further improve district water use efficiencies that will allow future expansion through conservation.

Progress: The pipeline has been installed through to the north side of Hwy 3. Delays in approval of the CPR crossing means this project will be completed in 2 phases, scheduled for spring 2021. A turnout at the end of the as-constructed portion of the pipeline will be used to drain the line in the fall, allowing phase 1 to be in service for 2020. The canal turnout to the pond, pipeline inlet structure and the gabion wall infiltration system are substantially complete and topsoil replaced. The liner for the settling pond has been completed, leak sealed, buried and armoured. Cleanup items are being addressed prior to full demobilization.