Good Morning Richard,

Below is a brief summary of the work completed this week (February 2nd to 6th). Let me know if you have any questions.

Mueller Construction:

ISCO arrived onsite on Tuesday and welded 125 feet of 48-inch HDPE pipe. This section of pipe was moved to the inlet portal of the tunnel ~STA 8+00 using a loader and excavator. It was inserted in the first 75 feet of the tunnel using the excavator, a skid-steer and a cable/winch (operated by RSS).

The excavator and loader placed pipe bedding material (3/4-inch gravel) along the pipeline alignment (STA 3+00 to 6+00).

ISCO welded two x 10-degree bends in 3 short sections of pipe. This "pre-fabricated" section of pipe will be used to make the transition at STA 3+00.

On Friday, ISCO started welding from STA 3+00, pulling the pipe towards the proposed manhole box location at STA 7+65. A mini-excavator is being used to pull/direct the end of the pipe. 250 feet were welded in 5 hours.

Rock Solid Solutions (RSS):

Set-up the winch at the tunnel portal, ready to pull/insert the 48-inch diameter pipe into the tunnel. RSS assisted inserting the pipe into the tunnel on Tuesday.

Two bulkheads were constructed at each end of the pipe (inserted into the tunnel). On Friday, RSS grouted the base of the bulkheads. The bulkheads still need to be shot-creted.

Some rock between STA 9+00 to 9+50 was excavated and removed from the tunnel.

Tunnel stabilization (installing bolts, mesh and split sets) was conducted between STA 9+55 to ~10+10. The tunnel stabilization is now effectively completed. Installed split sets along the base of the tunnel (STA 8+80 to 9+45) to hold the mesh into the tunnel wall.

Installed some rock anchors into the rock outcrops between STA 6+00 to 6+75 of the tunnel. These are for Mueller to use (if needed) to pull from, when dragging the HDPE pipe from STA 3+00.

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