

**MEMORANDUM**

DATE: February 26, 2020  
TO: Ted Corrigan, CEO and General Manager  
FROM: Nathan W. Casey, P.E., Engineering Supervisor  
SUBJECT: NW 26<sup>th</sup> Booster Station

In 2002, the City of Polk City and Des Moines Water Works (DMWW) collaborated on a new booster station and water main to take water from the DMWW system to Polk City. Polk City needed this project to supplement their water production capacity and to address poor water quality from Polk City’s Water Treatment Plant. DMWW also uses this station to increase pressure in parts of rural Polk County. Initially, the station was designed to provide no more than 750 gallons per minute (gpm) to Polk City.

In 2015, DMWW made emergency modifications to the “Polk City” booster station in an attempt to increase station capacity to meet water demand in Polk City. During periods of high-water use, Polk City has been taking over 900 gpm while the water levels in the elevated storage tank continue to drop. These increased demands revealed the need for expanded capacity to Polk City. For this reason, the City of Ankeny, Polk City, and DMWW teamed up for a joint study to evaluate water supply throughout the northern part of the DMWW distribution system. The study intended to ensure proper regional planning for these growing communities.

One recommendation from the Ankeny, Polk City, and DMWW Master Plan was for Polk City and DMWW to team on an expanded booster station and a new water main to supply that station. In 2018, Polk City and DMWW entered into a 28E agreement for this project. The new water main needed to provide water to the new booster station is complete and in operation. The design of the new NW 26th Street Booster Station is nearing completion.

The new NW 26th Street Booster Station will provide increased water supply to Polk City and growing areas of rural Polk County. The station has been designed to provide 2,500 gpm. This capacity maximizes the distribution system in this area and the existing feeder main to Polk City. The station has also been designed to resemble a small home due to its location in a residential area.