ASHWORTH ROAD – PHASES 1 THROUGH 4

WEST DES MOINES, IOWA

Ashworth Road is a minor arterial connecting West Des Moines to the new Grand Prairie Parkway interchange in Waukee. The existing street from Jordan Creek Parkway to Grand Prairie Parkway was a two-lane rural road. The City of West Des Moines programmed Ashworth Road to be reconstructed to a five-lane urban street in 0.5 mile phases from Jordan Creek Parkway to the West Des Moines City limits. The project includes traffic signals, a shared use path, storm sewer, water main, and replacing the existing 2-lane bridge over Interstate 80 with two replacement bridges that have been sized to accommodate future growth and improvements, allowing maximum flexibility to the City for future development. McClure worked with CenturyLink to pothole the existing duct bank to determine its existing elevation as the duct bank could not be relocated. With the duct bank located, McClure set the roadway profile of Ashworth Road to not impact the duct bank while minimizing impacts to the adjacent property owners.

The road was set higher than the surrounding properties due to the elevation of the duct bank which required storm sewer intake to be placed in yards of adjacent properties to intercept storm water flowing to the site. McClure worked with the City's right-of-way agent to obtain permanent storm sewer easements from affected properties.

In addition to the preliminary and final design services, McClure performed survey, right-of-way design, bidding services, construction administrative, construction observation, and record drawing services for the project.

PROJECT HIGHLIGHTS:

- The project will serve as a minor arterial connection, parallel to Interstate 80, between interchanges on Jordan Creek Parkway and Grand Prairie Parkway.
- The project included preliminary interchange concepts for a future interchange at Ashworth Road and Interstate 80.
- The design was especially challenging due to a 90-year-old interstate duct bank running under the pavement. The duct bank could not be relocated. The elevation of the duct bank drove the profile of the road and required the storm sewer to be designed deeper than typical.
- The project included identifying utility conflicts and coordinating with the utility companies to mitigate the conflicts. The project included relocation of two gas mains, overhead electric and cable, and underground communication lines.
- The project included preparation of right of way acquisition plats, permanent and temporary easement plats. McClure worked with the right of way acquisition agents to provide technical background during right of way negotiations with the property owners.

COMPLETION DATE

2023

REFERENCE

Brian Hemesath, PE
City Engineer
P 515.222.3620
brian.hemesath@wdm.iowa.gov

YOUR VISION. ENGINEERED HERE.

McCLURE