



July 21, 2022

## **BCHA SUPERIOR TOD**

### **Water Utilities**

#### Description

1. Water line installation shall conform to all state and local requirements and includes the following: Installation of approved PVC, ductile iron, or copper pipe with a minimum of 4.5-ft of cover from final grade; connection to existing the existing water main within the Town of Superior; and chlorination and flushing of finished water line per Town's standards. All new water lines shall meet required test standards.
2. It is anticipated two or more new hydrants will be needed for the proposed buildings; there are two existing fire hydrants within the parking lot but may not be sufficient to service the two buildings. There is an existing 6-in water main along Center drive and the west drive of the parking lot. It is anticipated that the 6-in water main may have to be looped around the exterior drive of the north parking lot to provide additional fire hydrants along the east side of the building.
3. Each building is expected to have a 3-in domestic water meter and 6-in fire service line. Irrigation will have a separate meter that can be connected to the existing 8-in reclaimed water line located along the west drive of the buildings. Final domestic and fire service tap sizes and locations will be coordinated with the project mechanical engineer. Irrigation facilities, as designed by the landscape architect

### **Sanitary Sewer**

#### Description

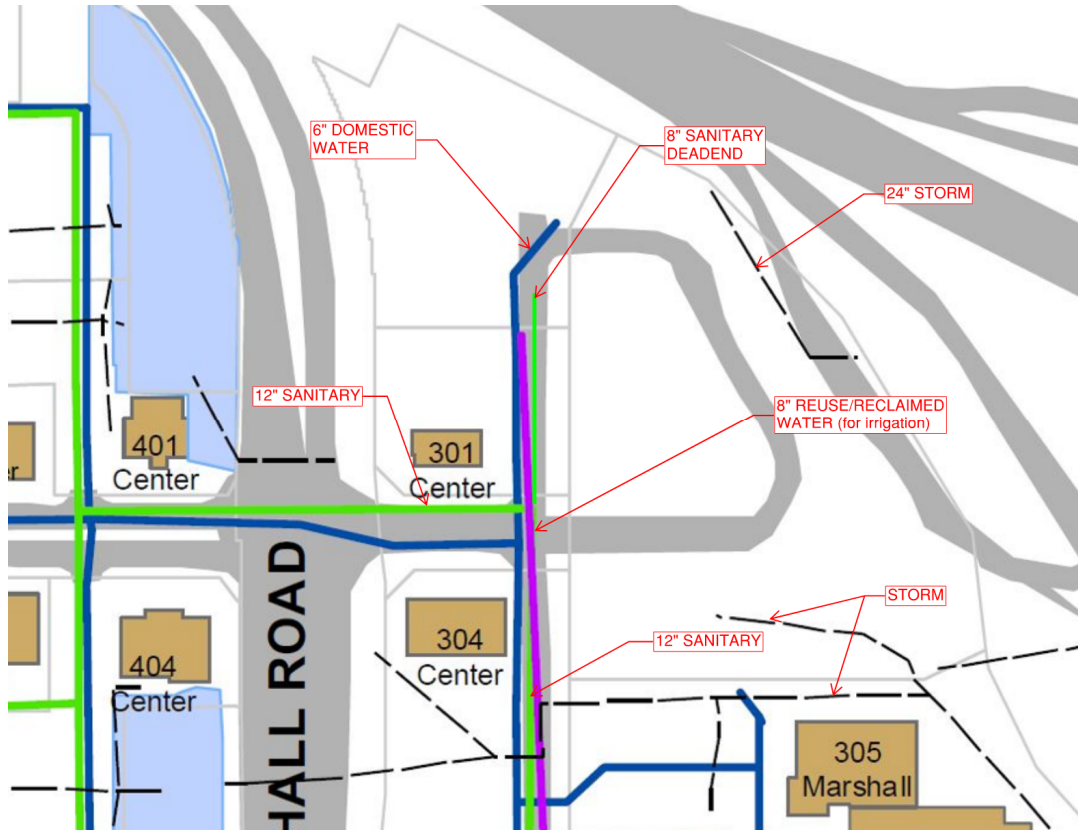
1. Sanitary sewer installation shall conform to all state and local requirements. There is a 12-in sanitary main that runs parallel to the water main along Center Drive and becomes 8-in along the west drive of the parking lot. The 8-in sanitary line dead ends at the pedestrian bridge over US-36.
2. It is anticipated that each building will require a 6-in sanitary service line and will connect to the existing 8-in along the west drive. The sanitary connection for the proposed building will be coordinated with The Town of Superior Sanitation District. Service sizing for the proposed building will be coordinated with the project mechanical. Cleanouts will be provided as needed and spaced every 100 feet and at every bend of the service line. The location of the proposed building's sanitary sewer service connection will be coordinated with the design team. The project's grease interceptor, if needed, will be designed by the mechanical engineer.

### **Storm Drainage**

#### Description

1. The existing site generally slopes from the west to the east with the majority of storm water runoff being captured by an existing storm sewer system that conveys runoff to the existing water quality detention ponds to the east of the site. The existing site consists of asphalt parking lots, and concrete drives and sidewalk.

2. A new storm sewer system will be constructed to serve the proposed developed site and tie into the existing system. The proposed building roof drains will connect to the proposed onsite storm infrastructure. It is not anticipated that the proposed building and surrounding development will increase the overall site imperviousness; therefore, there shouldn't be an increase in developed flows either. It is assumed that, since an increase in imperviousness is not anticipated, the existing water quality and detention ponds will be able to continue to provide water quality and detention to the site.



GIS Map of existing utilities from Town of Superior