

# MEMORANDUM

**Date:** September 5, 2025  
**To:** Julia Hanson, PE, DOT&PF Project Manager  
**From:** Avery Larsen, PE, HDL Project Engineer *AAL*  
**Subject:** Local Review Utility Impacts Memorandum  
AMATS: Academy Dr & Vanguard Dr Area Improvements  
0001753/CFHWY00783

This project is proposing a near complete realignment of Academy Drive and Vanguard Drive within the project area. New rights-of-way (ROW) will be established to accommodate the realigned roadways. To fully evaluate the utility impacts within the project area, there will need to a determination on what will happen to the existing ROW as most utilities follow the existing roadway corridors.

Underground and overhead utilities including illumination, electric, telecommunication, gas, water, sewer, and storm drainage within the project area. The following utility companies have facilities within the project limits:

- Alaska Communication Systems (ACS)
- Anchorage Water and Wastewater Utility (AWWU)
- Chugach Electric Association (CEA)
- ENSTAR Natural Gas Company (ENSTAR)
- General Communications Incorporated (GCI)
- Municipality of Anchorage (MOA)

Utilities are anticipated to require relocation and agreements will need to be developed to address conflicts. The utilities listed below are expected to have some degree of conflict with the proposed roadway work.

## Electric

CEA owns and operates overhead and underground electric lines within the project limits. Overhead lines cross Academy Drive, east of Vanguard Drive, providing a continuation of service in the area. Overhead lines also cross at the intersection of Academy Drive with Vanguard Drive and provide power to two luminaires at the intersection. An underground electrical line crosses Vanguard Drive near the intersection with Abbott Road. These underground electric lines are located in an existing utility easement that runs along the

southern edge of Abbott Road where it continues to parallel Abbott Road heading east, which feeds the multiple business properties.

### Telecommunications

ACS and GCI have underground telecommunication utilities within the project area.

ACS has underground lines that run within the ROW along the southern edge of Academy Drive, crossing Vanguard Drive, then traveling along the east edge of Vanguard Drive. At the intersection of Vanguard Drive and Abbott Road, one line crosses northwest across Vanguard Drive while another line crosses Abbott Road and parallels the roadway heading southeast. A fiber optic line runs from the southeast corner of Vanguard Drive east along the southern side of Abbott Road and across continuing on the north side of Vanguard Drive.

GCI has underground facilities within an easement and ROW on the north side of the existing Academy Drive and around the corner of Vanguard Drive, terminating in a pedestal on the west side of the road. A fiber optic line runs along the north side of Academy Drive around the corner of the intersection to run along the west side of Vanguard Drive. Near Abbott Road, the fiber optic crosses Vanguard Drive connecting to a vault at the Abbott Road intersection. From there, the fiber optic crosses Abbott Road continuing to an easement on the north of Abbott Road, away from the roadway, where it splits into four different runs.

### Gas

ENSTAR owns and operates natural gas distribution facilities within the project area. A 2-inch high-density polyethylene (HDPE) gas main runs along the north side of Academy Drive then turns to continue north along a 10 foot gas easement. One gas line branches off to the east to feed the corner parcel that was once Turnagain Center. Another 2-inch HDPE line wraps from the south side of Academy Drive around to the western side of Vanguard Drive, also crossing Vanguard Drive at the intersection. At the intersection of Vanguard Drive and Abbott Road, a gas main runs along the south side of Abbott Road heading east, branching off and feeding several nearby businesses. It also crosses Abbott Road to feed the north side businesses.

### Water Distribution

AWWU operates the water distribution within the project limits. A 12-inch ductile iron water main parallels Academy Drive, in the eastbound lane, with several water valve connections providing roadway crossings. At the intersection of Academy Drive with Vanguard Drive, the 12-inch ductile iron main splits with one main heading south along the northbound lanes and one main heading north on the eastern edge of Vanguard Drive. Near the intersection of Abbott Road, the water main crosses Vanguard Drive twice, turning into an 8-inch polyvinylchloride and an 8-inch ductile iron, before crossing Abbott Road and continuing north. There are also several parcels within the project area that are served by wells.

Sanitary Sewer

AWWU operates the sanitary sewer collection facilities within the project limits. An 8-inch asbestos concrete parallels Academy Drive in the westbound lane near the start of the project limits. It branches off to serve neighboring residents.

Along Vanguard Drive, an 8-inch ductile iron main runs north and south along the corridor in the southbound lane. At several locations, the main line crosses Vanguard Drive to serve nearby neighborhoods and businesses. At the intersection with Hartzell Road, the main continues north before connecting with Abbott Road.

**Proposed Improvements**

At this time, the plan is to remove and reconstruct all of the storm drain and illumination within the project area. A full review of potential utility impacts has not been completed. The proposed drainage improvements, which will be included in future submittals, will likely have additional impacts. Utility elements that are anticipated to be impacted by the new roadway are summarized in the table below. A complete review by each of the utility companies will be necessary to determine if their existing facilities will remain in-place or will need to be relocated.

Sheet	Station	Offset	Proposed Improvement	Potentially Impacted Utility
F1	BOP to "AD" 102+00	LT	Sidewalk	Underground Gas
F1	BOP to "AD" 102+00	LT/RT	Roadway	Underground Fiberoptic, Water
F1	BOP to "AD" 102+00	RT	Multi-use Pathway	Underground Telephone, Telephone Pedestal
F2	"AD" 102+80	LT	Multi-Use Pathway	Overhead Electric, Utility Pole, Underground Telephone
F2	"AD" 102+00 to "AD" 106+00	LT/RT	Roundabout (realigned Vanguard Drive intersection)	Overhead Electrical, Underground Gas, Fiberoptic, Telephone

Sheet	Station	Offset	Proposed Improvement	Potentially Impacted Utility
F3	"AD" 106+00 to "AD" 109+70	LT	Roadway and Sidewalk	Underground Electric, Fiberoptic, Sewer, Water
F3	"AD" 106+00 to "AD" 109+70	RT	Roadway and Multi-Use Pathway	Underground Telephone, Fiberoptic, Sewer, Water
F4	"AD" 110+40 to "AD" 110+75	RT	Abbott Road Intersection	Underground Telephone, Fiberoptic, Traffic, Gas, Water
F4	"AD" 112+10 to "AD" 112+68	LT/RT	Private Access and Roadway	Underground Electrical, Fiberoptic, Water, Sewer, Gas
F5	"VD" 200+40 to "VD" 202+00	LT/RT	Roadway (Realigned Vanguard Drive)	Overhead Electric, Underground Gas, Telephone, Fiberoptic, Water, Sewer
F7	"AR" 376+25	LT/RT	Roadway	Underground Electric