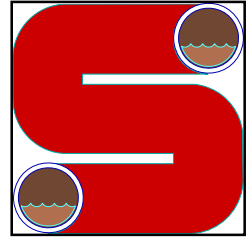


SANITARY SEWER IMPROVEMENT PROJECTS



Fairview-Sumac Sewer Improvements (CDBG Funded)

Construction of new sanitary sewer improvements for approximately 80 acre project area. HLA provided project design services, including engineering design report, preliminary survey, design, plans, specifications, estimates, and construction schedules.

Project Location: Yakima, Washington

Client: *Yakima County*

Race Street Sewer Improvements

Installation of approximately 2,100 LF of 8" sewer force main from 8th Street to 15th Street. HLA provided preliminary surveying, design, plans, specifications, estimate, and assistance during bidding.

Project Location: Yakima, Washington

Client: *City of Yakima*

Race Street Sewer Lift Station Improvement

Installation of sanitary sewer lift station, force main and fittings, cleanouts, manholes, and restoration of roadway surfaces. HLA provided design engineering, plans, specifications, estimates, and services during construction.

Project Location: Yakima, Washington

Client: *City of Yakima*

Main Influent Pump Station Rehabilitation

Rehabilitation of existing main pumping station including new variable speed pumps, new electrical system and controls, and building alterations. HLA provided complete design engineering, plans, specifications, estimates, and construction observation.

Project Location: Selah, Washington

Client: *City of Selah*

Naches Valley Elementary School On-Site Sewage Disposal System

Complete new on-site sewage disposal system including new septic tank, effluent pumping chamber, valve vault, and new pressure drainfield piping, pumps, and controls. HLA provided complete design engineering, plans, specifications, estimates, and construction observation for this CDBG funded improvement.

Project Location: Glead, Washington

Client: *Naches Valley School District*

Wastewater Treatment Plant Upgrade

Replacement of chlorine disinfection with UV disinfection, upgrades to the oxidation ditch including structural modifications and addition of a new rotor, new clarifier and flow distribution box, yard piping, new belt filter press and waste sludge pump. The aging electrical system was replaced in its entirety, by installing a new electrical service with emergency power backup a different location. HLA provided survey, design, plans, specifications, estimates, services during construction, and funding agency coordination.

Project Location: Naches, Washington

Client: *Town of Naches*

Sewage Treatment Plant Upgrade

Construction of new headworks including metering and mechanically cleaned bar screen, chlorine contact tank modifications, new electrical and controls, and additional sludge drying beds. HLA provided complete design engineering, plans, specifications, estimates, construction observation, and CDBG/WDOE grant administration.

Project Location: Naches, Washington

Client: *Town of Naches*

South Naches Neighborhood Sewer Improvements

Construction of new sanitary sewer improvements for the South Naches Neighborhood. HLA provided project design services, including engineering design report, preliminary survey, design, plans, specifications, estimates, construction schedules, and construction management.

Project Location: Naches, Washington

Client: *Town of Naches*

Marcus Whitman Elementary School On-Site Sewage Disposal System

Complete new on-site sewage disposal system including new septic tank, effluent pumping chamber, valves, pressure drainfield piping, pumps, and controls. HLA provided complete design engineering, plans, specifications, estimates, and construction observation.

Project Location: Cowiche, Washington

Client: *Highland School District*

WSDOT I-90 Ryegrass Rest Area Wastewater System

Evaluation of the existing on-site wastewater disposal system and recommendations for improvements with cost estimates.

Project Location: Kittitas County, Washington
Client: *WSDOT*

East Cle Elum Sewer Improvements

Construction of a new sewer lift pump station and forcemain to serve East Cle Elum area. HLA provided a preliminary engineering study report, assisted with preparation of a funding application to Kittitas County, and provided survey, design, plans, specifications, estimates, services during construction, and funding agency coordination.

Project Location: Cle Elum, Washington
Client: *City of Cle Elum*

Sanitary Sewer System Improvements

Installation of collection system improvements, new sewage lift station, ductile iron force main, force main suspension on bridge over Yakima River, and interceptor sewer serving future industrial/commercial area of Cle Elum. Multi-agency involvement required for regionalization of wastewater treatment facilities. HLA provided complete planning, design, engineering, plans, specifications, cost estimates, and grant administration for the WDOE/EPA/PWTF funded project.

Project Location: South Cle Elum, Washington
Client: *Town of South Cle Elum*

SR24 Wastewater Conveyance Facilities

Installation of over 14,000 LF of new 15", 18", and 21" diameter gravity sewer main from Moxee's Wastewater Treatment Plant to the Terrace Heights Sewer District Lift Station including new metering/monitoring station. Multi-agency involvement required for regionalization of wastewater treatment. HLA provided complete planning, design, engineering, plans, specifications, estimates, and construction administration for this PWTF and SIED funded project.

Project Location: Moxee, Washington
Client: *City of Moxee*

Wastewater Treatment Plant Improvements

Prepared plans, specifications, and estimate; and construction administration and observation for the construction of a new 34-foot diameter reinforced concrete circular clarifier, oxidation ditch aeration improvements, and electrical control improvements.

Project Location: Moxee, Washington
Client: *City of Moxee*

Wastewater Treatment Plant Upgrade

Construction of upgrade improvements at the Moxee Wastewater Treatment Plant including new sludge beds, ultraviolet disinfection, influent screen. HLA provided survey, design, plans, specifications, estimates, and services during construction.

Project Location: Moxee, Washington
Client: *City of Moxee*

Postma Road Sanitary Sewer Improvements

Installation of approximately 1,890 LF of 8-inch PVC sanitary sewer main, east from Grant Way. HLA provided survey, design, plans, specifications, estimates, and assistance during bidding.

Project Location: Moxee, Washington
Client: *City of Moxee*

Wastewater Treatment Plant Lift Station Improvements

Removal of existing pumps and installation of new pumps, piping, and valve vault. HLA prepared design engineering, plans, specifications, and estimates.

Project Location: Moxee, Washington
Client: *City of Moxee*

Wastewater Treatment Plant Disinfection and Headworks Upgrades

Pilot testing at the Wapato wastewater treatment plant showed UV disinfection could not reliably meet the stringent effluent limits. Therefore, the aging chlorine disinfection process was replaced with a new chlorination/dechlorination system, including a new building and automatic control system. A new headworks screen was installed to remove plastics and other objectionable materials from downstream processes and to improve biosolids quality. HLA provided complete design engineering, plans, specifications, estimates, and services during construction.

Project Location: Wapato, Washington
Client: *City of Wapato*

Wastewater Treatment Plant Improvements

Construction of new submerged biological contactors, digesters, dome roofs, sludge centrifuge, blower building, yard piping, and electrical. HLA provided complete design engineering, plans, specifications, estimates, and construction observation.

Project Location: Wapato, Washington
Client: *City of Wapato*

Sewage Pump Station Replacements

Replacement of two sewage pump stations including new duplex pump stations, new electrical and controls, and emergency standby generator power. HLA provided complete design engineering, plans, specifications, estimates, and construction observation.

Project Location: Wapato, Washington
Client: *City of Wapato*

Main Influent Pump Station Replacement

Replacement of existing pump station with new wet well mounted pump station and related piping, electrical, and controls. HLA provided complete design engineering, plans, specifications, estimates, and construction observation for this CDBG funded improvement.

Project Location: Harrah, Washington
Client: *Town of Harrah*

Sanitary Sewer Collection System Replacement

Replacement of entire sanitary sewer collection system including all sewer mains, manholes, and side sewers from sewer main to the structures. HLA provided complete project financing strategies, design engineering services, preliminary survey, plans, specifications, estimates, construction observation, and grant administration. Project was successfully financed through the Farmers Home Administration and Community Development Block Grant.

Project Location: Harrah, Washington
Client: *Town of Harrah*

Sewage Treatment Plant Rehabilitation

Replacement of lagoon aeration system, piping modifications, and new lagoon perimeter liner. HLA provided complete design engineering, plans, specifications, estimates, and construction observation for this CDBG funded improvement.

Project Location: Harrah, Washington
Client: *Town of Harrah*

Wastewater Treatment Plant Improvements

This project included a multi-faceted approach to planning of improvements and expansion of Grandview's wastewater treatment facility. The project required preparation of an Engineering Report, a Hydrogeologic Study, coordination with industries and development of industrial contracts, and environmental review. Improvements included modifications to the existing land application irrigation and disinfection systems, a new 18 MG aerated lagoon, and a new 1.5 MGD activated sludge treatment plant with discharge to the Yakima River.

Project Location: Grandview, Washington
Client: *City of Grandview*

Hillcrest Sanitary Sewer Replacement

Replacement of existing deteriorated sewer main in 800 Block of Hillcrest area. HLA provided complete design engineering, plans, specifications, and contract administration.

Project Location: Grandview, Washington
Client: *City of Grandview*

Domestic Water and Sanitary Sewer Improvements

Replacement of existing water and sewer mains and improvement of the asphalt concrete roadway. HLA provided design engineering, plans, specifications, estimates, and services during construction.

Project Location: Grandview, Washington
Client: *City of Grandview*

Influent Force Main Replacement

Construction of 3,500 LF of a new 24-inch HDPE force main between the Yakima River and the Grandview wastewater treatment plant, including flow metering and flow distribution facilities. The existing force main remained in place for future rehab and use. HLA provided complete design engineering, plans, specifications, estimates, and services during construction.

Project Location: Grandview, Washington
Client: *City of Grandview*

Main Sewage Lift Station Upgrades

All wastewater from the City of Grandview must pumped through the Euclid Lift Station and across the Yakima River to the treatment facility. Upgrades to the lift station included a new electrical system, replacement of pump motors, expansion of the building, a new engine-driven pump for emergency bypass, a new headworks structure, and an emergency storage basin to prevent sewage overflows. All work was done without taking the existing lift station out of service. HLA provided complete design engineering, plans, specifications, estimates, and services during construction.

Project Location: Grandview, Washington
Client: *City of Grandview*

Wallace Way TIB Improvements

Extension of sanitary sewer main to the north and installation of new stub-outs for future service. HLA provided complete project design engineering, plans, specifications, estimates, and construction observation.

Project Location: Grandview, Washington
Client: *City of Grandview*

Main Street Sewer

Extension of sanitary sewer main from Wine Country Road to the west to provide for future service. HLA provided complete project design engineering, plans, specifications, estimates, and construction observation.

Project Location: Grandview, Washington
Client: *City of Grandview*

Wallace Way Sewer

Construction of new public sanitary sewer main to serve industrial properties along Wallace Way. HLA provided complete project design engineering, plans, specifications, estimates, and construction observation.

Project Location: Grandview, Washington
Client: *City of Grandview*

Skypark Development

Construction of new public sanitary sewer improvements to service the Richland Airport Commercial/ Industrial Area. HLA provided complete project administration, preliminary survey, design, plans, specifications, estimates, construction schedules, and construction management.

Project Location: Richland, Washington
Client: *Port of Benton*

East Prosser Industrial Park Sewer System

Construction of a gravity sewer system sewage pump station, and force main to provide sanitary/industrial sewer service for the East - Prosser Industrial Park. This project was funded via LID, EDA, CERB, City, County, and Port. HLA provided survey, design, plans, specifications, estimate, services during construction, and grant/LID administration.

Project Location: Prosser, Washington
Client: *City of Prosser*

Wastewater Treatment Plant Improvements - Project Administration

Improvements to Prosser wastewater treatment plant were funded through a PWTF loan, two WDOE Centennial Clean Water Fund loans, and WDOE revolving fund loan. HLA provided project administration services, interfacing with the funding agencies, preparing reimbursement requests, and completing project close-out documents. As an off-shoot to the project, HLA also designed improvements to the SBR decant mechanisms, and improvements to the anaerobic digester gas piping system.

Project Location: Prosser, Washington
Client: *City of Prosser*

North Prosser Business Park Sewer Main

Construction of new 8-inch sewer mains to serve the North Prosser Business Park for industrial development. This project was funded via City, County, Port, CERB grant, and CERB Loan. HLA provided survey, design, plans, specifications, estimate, services during construction, and CERB administration.

Project Location: Prosser, Washington
Client: *City of Prosser*

Canyon Terrace No. 1 and 2

Construction of new public sanitary sewer improvements to service this new 248 lot residential subdivision. HLA provided complete project administration, financing strategies, design, preliminary survey, plans, specifications, estimates, and construction schedules.

Project Location: Richland, Washington
Client: *City of Richland*

20th Avenue West Project Columbia East Project

Construction of new public sanitary sewer improvements for approximately 400 acre project area. HLA provided complete project administration, financing strategy, preliminary survey, design, plans, specifications, estimates, construction schedules, and construction management.

Project Location: Pasco, Washington
Client: *City of Pasco*

Sanitary Sewer System Improvements

Replacement and repair of components of the sanitary sewer system. HLA provided design engineering, plans, specifications, estimates, and services during construction for this PWTF-funded project.

Project Location: Omak, Washington
Client: *City of Omak*

Wastewater Treatment Plant Improvements

Construction of new clarifier, ultraviolet disinfection, sludge dewatering, yard piping, electrical, and controls. The in-vessel composting process used to treat biosolids to Class A standards received an Environmental Excellence Award from WDOE. HLA provided complete design engineering, plans, specifications, estimates, and construction phase services.

Project Location: Omak, Washington
Client: *City of Omak*