

SECTION 31 23 19

DEWATERING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Furnish all labor, materials, tools, equipment and performances of all work and services necessary or incidental to the dewatering of trenches as necessary to construct the elements shown on the drawings or as specified herein.
- B. Provide all necessary dewatering during construction of the entire Project.

1.02 MEASUREMENT AND PAYMENT

- A. Dewatering shall be considered incidental to the utility being constructed unless identified in the Bid Form.
- B. The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid. The costs shall be included in the unit price bid for the dewatering items, as indicated. Such items of work include but are not limited to:
 - 1. Interference of other underground structures and utilities, include in the price bid for dewatering.
 - a. The removal and restoration, or protection of existing utilities that are shown on the plans and for which there is no bid item for removing and restoring, or working around the utility.
 - 2. The costs of furnishing discharge piping including bends, and adapters, include in the price bid for dewatering.
 - 3. Protecting existing improvements from damage, include in the price bid for dewatering
 - 4. Removal and off-site disposal of bituminous or concrete pavement, unless designated for salvaging.
 - 5. Removing, salvaging and storing, or disposing of manhole and catch basin castings.
 - 6. Loading, hauling, stockpiling and placing as directed (i.e., leveling) designated salvage items to a location directed by the Owner.
 - 7. Fees and permits for the disposal of materials.
 - 8. Removal and disposal of existing sanitary sewer pipe, storm sewer pipe, watermain, and service pipes.
 - 9. Bulkheading the ends of existing pipes designated by the Engineer to be abandoned in place.
 - 10. Protection from damage of structures or other surface improvements that are not to be removed, and subsequent repair and/or replacement if damaged by Contractor operations.
 - 11. Noise suppression methods for pumps running outside of the allowable working hours.

1.03 SUBMITTALS

- A. Submit dewatering plan for all applicable excavations.

1.04 SITE CONDITIONS

- A. Protect the Site and adjacent property to avoid any damage caused by dewatering and pumping.
- B. All dewatering discharge shall be the responsibility of the Contractor.

- C. Insure that no erosion occurs and that no contamination of the adjacent low areas occurs due to dewatering.

PART 2 PRODUCTS

2.01 DEWATERING EQUIPMENT

- A. The choice of dewatering equipment shall be the responsibility of the Contractor.
- B. Dewatering by pumping from sump pits will be acceptable if this method is able to keep the excavation dry.
- C. If pumping from sump pits is not able to maintain a dry excavation, dewatering shall be accomplished by means of well points, vacuum well points, deep wells, or a combination of these methods.
- D. Contractor shall remove from the Site all sand, silt, and debris accumulated during dewatering operations.

PART 3 EXECUTION

3.01 DEWATERING

- A. The Contractor shall furnish and install all necessary discharge piping and obtain all permits, easements, rights-of-way, etc. to convey and discharge the water at a sufficient distance from the project area to eliminate recharge of the ground water of the project site.
- B. Water from dewatering operations shall not be discharged where it will pond or cause damage to cropland or personal property due to the presence of standing or flowing water.
- C. Water shall be discharged into temporary sedimentary basins or other sedimentation Best Management Practices of approved equal prior to ultimate discharge into natural streams, waterways, or existing stormwater infrastructure where its impact will have negligible impact.
- D. Existing and/or proposed sanitary system(s) shall not be used as an outlet for the dewatering operations.

3.02 PERMITS

- A. Obtain all applicable permits required for dewatering. The contractor shall pay all permit fees associated with the dewatering of the site.

END OF SECTION