



CONTRACT TECHNICAL SPECIFICATIONS

Pump Station 10 Access Road Improvements, Bid No. 23-24

These Technical Specifications are intended to supplement Division 1 through Division 9 of the 2022 Standard Specifications for Road, Bridge, and Municipal Construction, prepared by the Washington State Department of Transportation (WSDOT) and the American Public Works Associations, Washington State Chapter and amendments thereto, herein referred to as Standard Specifications. In case of conflict, these Technical Specifications shall take precedence over the Standard Specifications.

DIVISION 1 General Requirements

1-09 MEASUREMENT AND PAYMENT

(Revised Section)

Delete this section and replace with the following:

1-09.1 Scope

- A. This section defines Measurement and Payment for the Project.

1-09.2 Measurement and Quantities

- A. Measurement for all items shall be as indicated in these Specifications for unit price and Lump sum price bid items. Bid items are outlined in detail in this Section.

1-09.3 Payment

- A. Payment will be the unit price multiplied by the measured quantity. Lump sum payment will be paid at the price indicated on the Bid Form. Bid items are outlined in detail in the specifications section.
- B. No separate payment shall be made for any Work item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of Work.
- C. All other Work required to complete the Work specified in the contract documents, but not indicated specifically as a pay item, shall be considered necessary and incidental work.

1-09.4 Schedule of Bid Items

The following is a list of bid items for the project. The contract price for each item constitutes full compensation for furnishing all equipment, labor, materials, appurtenances, and incidentals and performing all operations necessary to construct and complete the various bid items in accordance with the Contract Documents. Payment for each item shall be considered as full compensation, notwithstanding that minor features may not be mentioned herein. Work paid for under one item will not be paid for under any other item. If a particular item of work shown on the Plans or described in Specifications is not described in a specific bid item, this item of work shall be considered as incidental to the work and the costs for this work shall be merged into the various respective bid items.

A. Bid Item 1. Mobilization & Demobilization

1. Measurement shall be by lump sum.
2. Description
 - a. Mobilization: The work to be performed includes the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of offices, buildings and other facilities necessary for work on the project; for permitting, premiums on bonds and insurance for the project and for all other work and operations which must be performed, or costs incurred before beginning work on the various contract items.
 - b. Demobilization: At the end of the project includes removal of tools, materials, equipment, and facilities used by the Contractor during construction; final cleanup that consists of complete restoration of the project site to pre-existing conditions. This pay-item shall also include the final clean-up if the site and restoration of all property not designated for alteration by the Contract Documents.
 - c. Dust control, mud control, and street cleaning is considered incidental to the project.

- d. At contractor's request, limited equipment staging and storage may occur in the City Hall parking lot.
3. Payment: Mobilization and Demobilization will not be measured for payment. The original contract bid amount for "Mobilization and Demobilization" shall not be adjusted, although the Contractor may have, for any reason, shut down the Work on the project or moved equipment away from the project and then returned.
4. Partial payments will be made as the Work progresses as follows:
 - a. When 5% of the total original contract amount is earned from other pay items, 50% of the amount bid for Mobilization, or 5% of the original contract amount, whichever is lesser, will be paid.
 - b. When 10% of the total original contract amount is earned from other pay items, 100% of the amount bid for Mobilization, or 10% of the original contract amount, whichever is lesser, will be paid.
 - c. Upon completion of all Work on the Project, payment of any amount bid for Mobilization in excess of 10% of the total original contract amount will be paid.

B. Bid Item No. 2. Temporary Traffic Control

1. Measurement shall be by lump sum.
2. Description: The price bid for Temporary Traffic Control will include all materials, equipment, labor, and incidentals required to complete this work as described, according to these Specifications and Plans, and as specified below:
 - a. Work shall conform to the provisions in Section 1-10, "Temporary Traffic Control", of the State Standard Specifications.
 - b. Traffic control measures to close the westbound lane of N Mercer Way at the project site. Alternating one-lane, two-way traffic controls during the duration of the project, or until the roadway can be opened in a safe operating condition.
 - c. Work shall conform to Section 6G.11, "Work Within the Traveled Way of an Urban Street" of FHWA's "Manual on Uniform Traffic Control Devices (MUTCD)", most current edition.
 - d. Supplying a traffic control plan per WSDOT sheet TC1 "One-Lane, Two-Way Traffic Control with Flaggers" most current edition, or as required by Mercer Island's Community Planning and Development for issuance of the Right of Way permit.
 - e. Flaggers where shown on the traffic control plans. All flaggers shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. Flagging stations shall be staffed continuously during lane closures.
 - f. Maintaining access to the private driveway adjacent to the work area, located at 9036 N Mercer Way, and coordinating with the resident prior to any periods of restricted access.
 - g. Contractor shall be responsible for providing adequate labor, sufficient signs, and other traffic control devices, and for performing traffic control procedures necessary for the protection of the Work and the public at all times.
 - h. No separate payment will be made for preparation of Traffic Control Plan, or Traffic Control Supervisor, Other Traffic Control Labor, Construction Signs A or B, portable message signs, or other work required under this section unless a specific bid item has

been provided in the proposal.

3. Payment: Payment for this item shall be prorated over the life of the project based on the percentage of this construction item completed.

C. Bid Item No. 3. Access Road Preparation

1. Measurement shall be by lump sum
2. Description: The price bid for Access Road Preparation will include all materials, equipment, labor, and incidentals required to prepare the existing access road for surfacing as described, according to these Specifications and Plans, and as specified below:
 - a. Preparation of approximately 1,990 SF of subgrade in accordance with section 2-06 of the WSDOT Standard Specifications. Existing gravel and native soil surfaces over which HMA is to be placed shall be graded, shaped, and compacted. Backfill all sunken and excavated areas. Finished subgrade shall be uniform, firm, and unyielding.
 - b. Clearing and grubbing. Removal of all brush, weeds, vegetation, grass, and other deleterious materials and debris from all surfaces over which HMA is to be placed.
 - i. City of Mercer Island crews have performed overhead and perimeter trimming of branches within the project site. No tree trimming is expected for the project.
 - c. Existing concrete surfaces over which HMA is to be placed shall be cleaned of dust, soil, and native and foreign matter. Areas of broken, uneven, or lifted concrete, which cannot be worked into a smooth, unyielding surface, shall be removed.
 - d. Full depth sawcut and removal of existing pavement, concrete, gravel, and other similar roadway materials where proposed HMA meets existing pavement. Excavation shall be of sufficient length to provide a smooth transition from existing shoulder of N Mercer Way and private drive to proposed access road. Sawcut shall be neat, and Contractor shall endeavor to protect edges from damage prior to placement of final HMA.
 - e. Removal of existing bollards and chain and disposal in a legal manner off owner's property.
 - f. Work required to protect in place and construct around, or raise to propose finish grade, as indicated on the Plans, all existing pull-boxes within the limits of the project. Ensure final HMA placement meets flush at the top of the lid.
 - g. No additional payment will be made for additional base rock, backfill materials, or the removal of excess materials from the site.
 - h. All debris and excess earth materials shall become the property of the Contractor and shall be removed and disposed of in a legal manner off of the owner's property. Location of waste site and hauling of materials shall be the Contractor's responsibility.
 - i. No additional payment shall be made for this item should actual costs exceed the amount of the Bid and all compensation therefor is to be included in this items price. Full compensation for this item, as described in these Specification and Plans, shall be considered as included in the contract price paid per this bid item and no additional compensation shall be allowed therefore.
3. Payment: Payment for this item shall be prorated over the life of the project based on the percentage of this construction item completed.

D. Bid Item No. 4. Recycled Asphalt Pavement (RAP) (City Furnished)

1. Measurement shall be per cubic yard (CY) in the hauling vehicle at the point of delivery.
2. Description: The price bid for Recycled Asphalt Pavement (RAP) (City Furnished) shall include all materials, equipment, labor, and incidentals required for hauling and placing RAP as described, to the line, grade, and compaction according to these Specifications and Plans, and as specified below:
 - a. Hauling of approximately 50 CY of RAP and placement at the project site in accordance with Section 4-04 of the WSDOT Standard Specifications and cross-sectional details of the Plans.
 - b. All RAP shall be City Furnished. Material is stockpiled at the Mercer Island Public Works lower maintenance yard, 9601 SE 36th Street, Mercer Island, WA 98040.
 - i. At the request of the Contractor, loading of stockpiled material may be performed by City crews at no extra cost to the Contractor.
 - c. No additional payment shall be made for this item should actual costs exceed the amount of the Bid and all compensation therefor is to be included in this item's price. Full compensation for this item, as described in these Specifications and Plans, shall be considered as included in the contract price paid per this bid item and no additional compensation shall be allowed therefore.
3. Payment: Payment for this item shall be made on a per cubic yard basis as completed during the project.

E. Bid Item No. 5. Hot Mix Asphalt (HMA)

1. Measurement shall be per ton.
2. Payment: The price bid for Hot Mix Asphalt (HMA) shall include all materials, equipment, labor, and incidentals required to complete this work as described, to the line, grade, and compaction according to these Specifications and Plans, and as specified below:
 - a. Placement and compaction of 4" HMA pavement section, Class 1/2" PG 58H-22, constructed in accordance with section 5-04 of the WSDOT Standard Specifications.
 - b. Place and compact in two lifts: 2" leveling course and 2" top course
 - c. Compaction shall be 92% of maximum density as determined by WSDOT FOP for AASHTO T209.
 - d. Work to pre-level uneven or broken surfaces over which HMA is to be placed by using an asphalt paver, motor patrol grader, skip loader, or by hand raking.
 - e. Application of a uniform tack coat, CSS-1 or CSS-1h emulsified asphalt, to all existing concrete or asphalt on which new courses of HMA are to be placed or abutted, as well as between subsequent lifts of new HMA, is considered incidental to this work and shall be paid for under this bid item.
 - f. No additional payment shall be made for this item should actual costs exceed the amount of the Bid and all compensation therefor is to be included in this item's price. Full compensation for this item, as described in these Specifications and Plans, shall be considered as included in the contract price paid per this bid item and no additional compensation shall be allowed therefore.
3. Payment: Payment for this item shall be made on a per ton basis as completed during the project.

F. Bid Item No. 6. Force Account

1. Measurement shall be per each unit.
2. Payment: Payment or credits for field changes may be made under the Bid Item "Force Account". At the discretion of the City, this procedure for changes may be used in lieu of the more formal procedure as outlined in the GENERAL TERMS AND CONDITIONS. The Contractor will be provided a copy of the completed order for change. The agreement for the change will be documented by signature of the Contractor or notation of the verbal agreement. If the Contractor disagrees with anything required by the order for change, the Contractor may protest the order as provided in the GENERAL TERMS AND CONDITIONS.
3. For the purpose of provided a common Bid Proposal, the City has entered an amount for "Force Account" in the Proposal to become part of the Total Bid by the Contractor.

G. Bid Item No. 7. Optional Bid Alternate No. 1: 10' Swing Gate

1. Measurement shall be per lump sum.
2. Payment: The price bid for 10' Swing Gate shall include all materials, equipment, labor, and incidentals required to complete this work as described, to the line, grade according to these Specifications and Plans, and as specified below:
 - a. Furnishing and installing 10' clear opening single leaf swing barrier gate with receiver post equivalent to that shown on page 9 of the ITB Attachments.
 - b. Exact location to be field determined. Final placement shall allow parking storage of one utility vehicle on the unsecured side of the gate.
 - c. No additional payment shall be made for this item should actual costs exceed the amount of the Bid and all compensation therefor is to be included in this items price. Full compensation for this item, as described in these Specification and Plans, shall be considered as included in the contract price paid per this bid item and no additional compensation shall be allowed therefore.
3. Payment: Payment for this item shall be prorated over the life of the project based on the percentage of this construction item completed.

END OF SECTION