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## **SECTION 636 – E-CONSTRUCTION**

**636.01 Description.** This section specifies requirements for performing the Project in a "paperless" manner, using electronic tools for all submittals, communications, quantity tracking, testing, and sampling, scheduling, quality control, and performance monitoring.

**General Requirements.** The Contractor shall implement the use of the E-Construction platform, as provided by the HDOT and directed by the Engineer, for use throughout the project. Paper-based or hard copy submittals will not be accepted.

This Special Provision shall take precedence over all other Specification sections with respect to providing and receiving paper copy communications, submittals, and any project records. Where conflicts exist, and a decision between a hard-copy item and a corresponding electronic version is needed, the electronic version shall be selected, unless otherwise directed by the Engineer.

## 636.03 Construction

**(A)** Plans and Specifications. Project drawings will not be provided to the Contractor in hard copy format. An electronic version will be provided in the E-Construction platform for use during the project.

The Contractor shall note all changes to the work, including all subcontractor's work, in electronic format using the E-Construction platform Red annotations shall be used to note changes. Blue annotations shall be used for any additional notes that will be helpful for the State in interpreting the field posted drawings. Other drafting standards may be implemented by the Engineer and shall be adhered to by the Contractor. Changes shall be input by the Contractor and reviewed by the Engineer monthly. The Contractor shall make any changes that the Engineer requires.

**(B) Submittals**. The Contractor shall provide all required submittals, as listed within the contract documents, via the E-Construction platform.—All review, approval, and resubmittal regarding submittals shall also be documented within the E-Construction platform

- **(C) Correspondence.** Electronic mail (email) shall be the preferred method of electronic communication. All communications that affect project scope, schedule, cost, or quality, including changes and requests for information, shall be submitted as directed by the Engineer.
- **(D) Prosecution and Progress.** The Contractor shall provide all administrative, management, and project support documents required by various specification sections, using the E-Construction platform. These elements include, but are not limited to:
  - (1) Preconstruction Submittals (Section 108.03)
  - (2) Correspondence regarding Contract Time and Delays (Section 108.05)
  - (3) Progress Schedules (Section 108.06)
  - (4) Weekly Meeting preparatory materials (Section 108.07)
  - (5) Samples, certifications, material data, installation instructions, and shop drawings (Sections 105 and 106)
  - (6) Field-posted Drawings (Section 648)
  - (7) Pre-Final Inspection submittals (Section 108.13)
  - (8) Warranty documentation (Section 108.17)
  - (9) Project Closing Documents (Section 108.19)

In addition to the foregoing, the Contractor shall provide any other materials, correspondence, and submittals using the E-Construction platform as directed by the Engineer.

**(E)** Resources. The Contractor shall provide a comprehensive list of Contractor labor and equipment, including all subcontractor labor and equipment, that will be deployed on the project, using spreadsheet-based templates provided in the E-Construction platform. All template fields shall be completed. The submitted information shall comply with the requirements of Specification Section 108 – Prosecution and Progress (identification of labor and equipment resources) and Specification Section 109 - Measurement and Payment (cost data) and represent all individual personnel with labor categories and rates, and all equipment owned or rented, with associated rates, on this project. Updates for additional personnel or equipment shall be accomplished by the Contractor at will and shall be completed when directed by the Engineer.

636.04 The Engineer will measure additional E-Construction Measurement. programs, additional licenses, or additional equipment, if ordered by the Engineer, on a force account basis in accordance with Subsection 109.06 - Force Account Provisions and Compensation. Payment. The Engineer will pay for the additional E-Construction programs, 636.05 additional licenses, or additional equipment, on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation. The Engineer may withhold progress payment until the Contractor is in compliance with all E-Construction requirements. Pay Item Pay Unit Additional E-Construction Programs, Additional Licenses or Additional Equipment Force Account An estimated amount for force account may be allocated in the proposal schedule under "Additional E-Construction Programs, Additional Licenses or Additional Equipment." The actual amount to be paid will be the sum shown on accepted force account records.

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