

**Project No. 18-001
Street Overlay Project**

Appendix No. 1

Specifications

This section includes the General, Standard, and Special Specifications and the Special Provisions that the Contractor is required to follow.

General Specifications

Introduction

All equipment and facilities shall be provided, installed, and constructed by the Contractor to provide the Town with complete, ready-to-use facilities. The Contractor shall provide the Town with all equipment warranties if requested. All necessary materials and work required to accomplish this are the responsibility of the Contractor alone, whether or not specifically indicated on the drawings or stated in the specifications.

Restoration of Disturbed Monuments

At the Contractor's cost, a registered land surveyor must reset monuments disturbed or destroyed by the Contractor outside the scope of work.

Working Hours

Working hours are limited to 6:00 a.m. to 7:00 p.m., Monday through Friday. Project auxiliary activities such as clean up and vehicle maintenance may be performed during off-hours. However, the Contractor may not construct items outlined in the scope during off-hours unless otherwise allowed by the Engineer.

Field Office and Facilities

The Contractor shall establish a field office as appropriate to the nature of the project. For smaller projects, the foreman's pick-up will suffice. The exact need and nature of a field office will be established during the pre-construction conference.

The Contractor shall be responsible for the installation and costs of all necessary temporary utilities and other facilities as needed to perform the work. This includes any special shelters or temporary environments needed to protect equipment and materials not yet installed. The Contractor is responsible for site security.

Field Engineering and Surveying

The cost for field engineering and surveying is considered to be incidental and no additional compensation shall be permitted. The Town will not provide construction staking or control surveying. The Contractor will pay for any sub-contracted field engineering or surveying services he wants in the discharge of this project.

As-builts

As-built plans are not anticipated as part of this project.

Quality Control and Assurance

Test requirements and frequency are listed in the Special Specifications and will be reviewed during the pre-bid and pre-construction conferences.

Clean Up

Contractor shall keep the work site clean and free of unnecessary debris. Upon completion and before making application for acceptance of the work, the Contractor is required to clean the site. The Town will not issue a Certificate of Final Acceptance until the site is properly cleaned.

Payment for cleaning the site will not be made. Cleaning is incidental to other work and no additional compensation will be permitted.

Traffic Control

The Contractor shall provide all signing and personnel necessary for the maintenance and protection of the traveling public and shall be responsible for all traffic control for the duration of this project. Signing and other controls will comply with Part IV of the FHWA Manual of Uniform Traffic Control Devices pertaining to construction sites. Unless a bid item is provided, traffic control is considered incidental, with no additional payment made.

The Contractor and Town will finalize the traffic control plan during the pre-construction conference. Any required ADOT permits are the responsibility of the Contractor.

The Town's police force may be available to assist with traffic control but its availability is not guaranteed. The cost for this assistance will be charged against the Contractor's invoice as a credit for the Town.

Claims and Release of Bonds

The Contractor will be required to sign the **Settlement of Claims** form before the Town will release the **Payment Bond** when final payment is made. Final payment will not be made until the Town issues the **Certificate of Final Acceptance**. The **Performance Bond** will be released one year after acceptance if no claims are made against the Contractor. Any payment, final or otherwise, shall not release the Contractor from any obligation under the contract documents.

Incidental Work

Trench shoring, ground water removal, etc. are considered incidental and will not be paid for directly unless a bid item is provided. The Contractor must obtain Town approval of its de-watering plan prior to commencement of de-watering work.

Standard Specifications

Introduction

All construction methods and materials shall conform to the Standard Specifications noted below unless modified elsewhere. For this project, the Town of Thatcher uses the Maricopa Association of Governments *Uniform Standard Specifications and Details for Public Works Constructions*, 2018 revision to the 2015 edition.

Applicable Standard Specifications

The following is a list of standard specifications incorporated by reference into these Specifications:

<u>Standard</u>	<u>Section</u>	<u>Description</u>
MAG	Part 100	Entire Part applies unless otherwise noted.
MAG	201	Clearing & Grubbing
MAG	205	Roadway Excavation
MAG	301	Subgrade Preparation
MAG	310	Aggregate Base Course
MAG	317	Asphalt Milling
MAG	321	Asphalt Concrete Pavement
MAG	329	Tack Coat
MAG	333	Fog Seal Coats
MAG	336	Pavement Matching & Surfacing Replacement
MAG	345	Adjusting Frames, Covers, Boxes
MAG	350	Removal of Existing Improvements
MAG	401	Traffic Control
MAG	702	Base Materials
MAG	710	Asphalt Concrete
MAG	711	Paving Asphalt
MAG	712	Liquid Asphalt
MAG	713	Emulsified Asphalt

Measurement and Payment

Payment will be by unit price or lump sum as indicated on the bid schedule and not necessarily as shown in the Standard Specifications.

Special Specifications

Traffic Control

Traffic control procedures, including consideration of detours and road closures, will be reviewed during the pre-bid and pre-construction conference. The Contractor will provide a proposed schedule of road closures to the Town during the pre-construction conference. Generally, it is preferred to keep at least one lane of traffic open through the use of signing, barricading, and flagmen. Contractor must be aware that this project consists of construction on local residential streets and that residents must be allowed to access their property at all times.

Quality Control

The Contractor will provide certificates of compliance for Asphalt Concrete Pavement, and ABC material prior to payment. Truck tickets showing strength, slump, etc. will suffice for concrete work. The Engineer will visually inspect site to verify that proper earthwork techniques are being used. The Contractor will provide this documentation as well as weigh tickets at no additional cost to the Town. If the Contractor appears to be using poor material or craftsmanship, the Town may elect to use the services of a testing firm to verify Contractor performance.

Asphalt Milling

All streets to be overlaid shall be milled to an average depth of one-inch (1"). In addition, an 8' taper next to curbs, valley gutters and tie-in points shall be milled (2" deep at tie-in, tapered to 1" deep). Millings will be transported to an area designated by the Town Engineer at the Thatcher Public Works Yard on Reay Lane. If milling results in a condition in which all existing asphalt is removed, then the roadway base may need to be solidified prior to asphalt installation.

Overlay Course

The Contractor will apply tack oil over the existing asphalt and at the curbs, gutters, and tie-in points per standard specifications, then immediately thereafter use a laydown machine to place the asphalt overlay over the project limits to an average depth of 2". The Contractor will provide a mix design during the pre-construction conference that has already been accepted by ADOT or MAG for use in a similar setting.

Fog Seal Coat

Fog seal coat shall be applied to existing asphalt surfaces in accordance with MAG Specification 333. The application rate shall be 0.10 gallons per square yard.

Water for Construction Purposes

Thatcher provides construction water to the community at a standpipe adjacent to its Reay Lane Wastewater Treatment Plant on North Reay Lane (approximately 1.1 miles north of First Street). The Town will not charge for water; however, it also does not guarantee availability. The Contractor is urged to seek alternate sources of water so that in the event that these sources are not available, the Contractor's work may continue. The water is not potable but is appropriate for construction uses. The Contractor is responsible for arranging for the purchase of water for all construction required under this contract. Payment for water will not be made; the cost is considered incidental to other pay items.

Public Relations

The Contractor will not be required to provide PR signing for this project.

Street Preparation

The Contractor will sweep streets and remove millings, grass, and debris prior to asphalt overlay. The Contractor will locate all existing manholes, valve covers, survey monuments and existing striping layout prior to begin construction. After paving is complete, the Contractor will adjust all manholes, valve covers, and survey monument covers to grade.