**SECTION 1.5**

**TECHNICAL SPECIFICATION FOR**

**PRE and post CONSTRUCTION VIDEO OF PROJECT SITE**

**PART 1 GENERAL**

**1.1 Scope of Work:**

Furnish all necessary labor, materials, and equipment to perform color audio-video recording of the pre- and post-construction project site surfaces as specified herein. Contractor shall furnish to the Owner an original copy of the continuous color audio-video DVD recordings of each project segment.

The owner reserves the right to reject the audio-video DVDs because of poor quality, unintelligible audio or uncontrolled pan or zoom. Any videos rejected by the Owner shall be re-videoed at no additional cost to the Owner. The Contractor shall submit one (1) DVD to the Owner for format and content approval prior to the start of any work.

**1.2 Purpose of Work:**

The purpose of the color audio-video taping of the project is to provide the necessary information for restoration of surface features after completion of the project. The contractor shall be responsible for repairing any damage(s) or defect(s) not documented as existing prior to construction.

**PART 2 QUALITY ASSURANCE**

The video recordings shall be performed by a qualified audio-video taping firm or individual knowledgeable in construction practices and experienced in the implementation of established inspection procedures. The minimum qualification of a videographer shall be as follows:

* Videographer shall be a firm or an individual of established reputation who has been regularly engaged as professional photographer for not less than three (3) years.
* The videographer must have had previous experience video documenting a minimum of ten (10) miles of preconstruction work.
* Any apprentice videographer must be continuously supervised by an above described experienced videographer.

**PART 3 EXECUTION**

Ten (10) days prior to the commencement of any construction, equipment or material mobilization, the Contractor shall perform an audio-video survey of each project site area which will be excavated or which has the potential to be disturbed by the Contractor’s operations. The Contractor shall also perform an audio video survey of each project site after all construction work and site restoration is completed. Specific areas of this project include, but are not limited to:

* All areas to be entered by vehicles or equipment, including construction areas for both internal and excavated improvements.
* Areas requiring utility work.
* Paved and unpaved areas which will be entered by vehicles or equipment.
* Other areas that may be impacted by the work, including work staging areas and field offices, as directed by the Owner.

The Contractor shall be responsible for the timely execution of the pre and post construction audio-video survey, its vantage points, and quality. The contractor shall cooperate with the videographer’s work and provide reasonable auxiliary services as requested, including access and use of temporary facilities including temporary lighting.

Submitted DVDs shall be reviewed and approved by the Owner within five (5) days of submittal of a satisfactory survey. Should the DVD not provide adequate coverage to fully illustrate the physical condition of the work area or not be in compliance with the specifications, project areas shall be resurveyed prior to the initiation of construction at the project sites, with no additional cost to the Owner.

The Contractor shall provide one (1) copy for each pre and post construction phases; labeled on the DVD and jewel case cover as follows:

**Face of DVD & Case Cover**

**(PRE) OR (POST) CONSTRUCTION AUDIO-VIDEO SURVEY**

**Contract No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Project Title:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Contractor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DVD No.\_\_\_\_\_\_\_\_\_**

**Date Televised (MM/YY)\_\_\_\_\_\_\_\_\_\_\_ Date Submitted\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Inside of Case Cover**

|  |  |  |
| --- | --- | --- |
| **Project Segment No.** | **Street, Address/Location** | **Starting Video** **Counter No.**  |
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The video portion of the recordings shall produce bright, sharp clear pictures with accurate colors and shall be free from distortion, tearing, rolls, or any other form of picture imperfection. The audio portion of the recordings shall reproduce precise and concise explanatory notes by the camera operator with proper volume, clarity and freedom from distortion.

The recorder shall record the color signal with a minimum vertical resolution of 400 lines and a minimum horizontal resolution of 700 lines at the center.

To preclude the possibility of tampering or editing the DVD shall display continuous digital information including the following:

* Date and time of the recordings; date information will contain the month, day and year; time information will contain hours, minutes and seconds, separated by colons.
* The engineering stationing corresponding to the stationing on the contract documents, or as directed by the Owner.

Digital information shall appear at the bottom of the viewing screen and in no way interfere with the video portion of the recordings.

At the start of each video recording segment, an identification summary shall be read into the record simultaneously with a wide-angle view with digital information. The identification summary shall include the following:

* PID number
* Contract number
* Contractor’s name
* Date and time
* General location and name of street
* Weather
* Direction of travel and viewing direction

The recordings shall include the coverage of all surface and other site features located in areas to be affected by the Work, extending to a minimum of 15 feet outside the actual right of way (street, construction, etc.). The surface features recorded shall include, but not be limited to, roadways, driveways, sidewalks, curbs, culverts, headwalls, retaining walls, buildings, above-ground utilities, parks, lawns, landscaping, trees, tree canopies, shrubbery and fences. The area of coverage shall extend to 50 feet from the proposed work site but shall also include all unpaved areas and access routes where vehicles or equipment will pass.

Video recordings may be ordered outside of the area of coverage in order to establish those features deemed necessary by the Owner.

The rate of travel for the video recordings shall be determined by the number, size, and value of the surface and other site features within the construction area of coverage so as to produce a clear, detailed view of each feature accompanied by audio comments. At no time shall the rate of travel exceed 264 feet per minute. Forward motion of the camera shall be halted when viewing objects or structures outside the limits of the street or easement being documented.

The videographer shall pan and zoom in and out at a reasonable rate so as to control sufficiently the clarity of object being viewed.

When recording in right-of-ways, the camera shall be mounted on a steady base. Horizontal and vertical shots shall be made from the base, in order to insure proper perspective. The distance from the camera lens to the ground shall be no more than 12 feet. If not accessible by motorized vehicle, height shall be determined by the distance from ground to shoulder height of the camera operator. Contractor shall furnish all auxiliary lighting as required to produce a quality recording. At no time will the Contractor be allowed to use any electrical circuits within a building on private properties.

All video recording shall be performed during regular business hours, unless otherwise approved by the Owner. No video recording shall be performed if the weather is not acceptable, such as rain, fog, or elongated shadows that distort perception and tend to prevent clear resolution.

The videographer shall retain the original unedited video DVD for five (5) years after the date of final acceptance. During this period, the photographer shall fill orders by the Engineer for extra copies of DVD priced at prevailing local commercial rates.

**PART 4 METHOD OF MEASUREMENT AND PAYMENT**

No measurement or direct payment will be made for pre and post construction videos.

**\*\*END OF SECTION\*\***