

EXPLORATORY BORINGS

**\*\*From Rockingham STP GMRC(1)**

- xx. DESCRIPTION. This work shall consist of performing exploratory borings to confirm bedrock ledge elevation.
- xx. GENERAL REQUIREMENTS. The number of and location of the explorations is at the Contractor's discretion. No explorations shall be made except in the presence of the Engineer or the Engineer's inspector.
- xx. EQUIPMENT. All equipment and methods to be used by the Contractor shall be subject to approval by the Engineer at all times during the work. However, approval of the equipment shall not be construed as including the approval of the performance thereof. Additional equipment and methods shall be provided when ordered by the Engineer if required to perform the work satisfactorily in accordance with these specifications.

The Contractor shall be required at all times when the work is in progress to have one (1) drilling rig with complete crew at the site engaged in field operations. The Contractor shall submit in writing a schedule of operations for the work. The Engineer shall be notified at least 48 hours in advance of deviations from the schedule and such deviations shall be subject to the approval of the Engineer.

- xx. BAR SOUNDINGS. Bar soundings shall be taken to such depths to the elevations of the bedrock surface. If boulders or other obstacles are encountered, the Contractor shall make all reasonable efforts to drive the bar past such obstacles. However, if such efforts fail and the sounding must be abandoned before adequate information is obtained, another sounding shall be made nearby. A careful log shall be made for each bar sounding, with elevations noted for ground surface at the sounding location and for the bottom of the sounding.
- xx. AUGER BORING SOUNDINGS. Auger boring soundings shall be taken to determine the elevations of the bedrock surface. All auger boring soundings shall be performed with rotary and/or percussion drilling equipment using drill rod and coring type bits. Equipment can be either the portable hand-operated or heavier drilling machine type, employing pneumatic, engine-driven, or electrical power. This equipment shall be capable of drilling an uncased hole through overburden materials to bedrock.

Holes shall be advanced until drilling resistance and/or cuttings indicate that bedrock has been encountered. If boulders or other obstacles are encountered, the Contractor shall make all reasonable efforts to drill past such obstacles. If the sounding must be abandoned before adequate information is obtained, another sounding shall be made nearby.

- xx. RECORDS. The Contractor shall keep complete, neat, accurate, and legible field records of each subsurface exploration. These records shall show the Contractor's interpretation of the results of the explorations as to the nature of the bedrock elevation. The records shall be made at the site as the work progresses and shall be furnished

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to the Engineer at the completion of each day. The records shall contain the following information.

(a) General.

- (1) Identification number shown on subsurface exploration plan.
- (2) Date of start and date of finish.
- (3) Name of Engineer, Contractor, and Lead Driller.
- (4) Town, State Project Number, Route Number/Name, and Bridge Number when applicable.

(b) Bar Sounding, Air Track Probes, and Auger Borings.

- (1) Location (plans and ground elevation) of probe.
- (2) Size and type of probe used.
- (3) Depth to end of probe.
- (4) Description of rock hardness (i.e., soft, medium, hard, and very hard).

A copy of the driller's field logs shall be given daily to the Inspector. The Contractor shall provide typed boring logs of all subsurface explorations, referenced to ground surface, together with all notes, remarks, and pertinent information required by these specifications. The logs shall be submitted to the Engineer no later than 5 days after the completion of the subsurface exploration program.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Exploratory Borings) to be measured for payment shall be the number of days per drilling rig that is engaged in field operations.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Exploratory Borings) will be paid for at the Contract unit price per day. Payment will be full compensation for performing the work specified, for furnishing all required materials, including water supply, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

The quantity of explorations shall be determined by the Contractor; however, payment will be limited to a maximum of two (2) days.

No other payments for any specified or indicated work, or for any work implied wherefrom, shall be made.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.610 Special Provision (Exploratory Borings)	Day