

EXPECTED IMPLEMENTATION JULY 2016

556 JACK AND BORE. (REV 10-16-15) (FA 12-16-15) (7-16)

SUBARTICLE 556-3.3.1 is deleted and the following substituted:

556-3.3.1 Remediation Plans: When required by the Engineer, submit detailed plans which show how damage to any roadway facility will be remedied. These details will become part of the As-Built Plans Package. Remediation plans must follow the same guidelines for development and presentation of the As-Built Plans. When remediation plans are required, they must be approved by the Engineer before any work proceeds.

SUBARTICLE 556-4.3.2 is deleted and the following substituted:

556-4.3.2 Damaged Product Testing: When there is any indication that the installed product has sustained damage and may leak, stop the work, notify the Engineer and investigate damage. The Engineer may require a pressure test and reserves the right to be present during the test. Perform pressure test within 24 hours unless otherwise approved by the Engineer. Submit the test results to the Engineer for review and approval. The Engineer shall be allowed up to 72 hours to approve or determine if the product installation is not in compliance with specifications. The Engineer may require non-compliant installations to be filled with excavatable flowable fill at no cost to the Department.

ARTICLE 556-6 is deleted and the following substituted:

556-6 Documentation Requirements.

556-6.1 Boring Path Report: Submit a Bore Path Report to the Engineer within 14 days of the completion of each bore path. No payment will be made for directional boring work until the Bore Path Report has been delivered to the Department. Include the following information in the report:

1. Location of project and financial project number including the Permit Number when assigned.
2. Name of person collecting data, including title, position and company name.
3. Investigation site location (Contract Plans station number or reference to a permanent structure within the project right-of-way).
4. Identification of the detection method used.
5. Spoils removal log.
6. As-built placement plans showing roadway plan and profile, cross-section, boring location and subsurface conditions as defined in Bore Path Plans below. Reference the shown plan elevations to a Department Bench Mark when associated with a Department project, otherwise to a USGS grid system and datum or to the top of an existing Department head wall.

556-6.2 As-Built Plans: Submit to the Engineer a complete set of as-built plans showing all bores (successful and failed) within 30 calendar days of completion of the work. As-built plans must be PDF files, in the same scale as the Contract Plans, and formatted on 11 inch by 17 inch sheets. Include notes on the plans stating the final bore path diameter, facility

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D diameter, drilling fluid composition, composition of any other materials used to fill the annular void between the bore path and the facility or facility placed out of service. If the facility is a casing, note this, as well as the size and type of carrier pipes to be placed within the casing as part of the Contract work. Produce the plans as follows:

1. On the Contract plan view, show the centerline location of each facility, installed or installed and placed out of service to an accuracy within 1 inch at the ends and other points physically observed. They show the remainder of the horizontal alignment of the centerline of each facility installed or installed and placed out of service and note the accuracy with which the installation was monitored.

R 3. As directed by the Engineer, submit either a profile plan for each bore path, or a cross-section of the roadway at a station specified by the Engineer, or a roadway centerline profile. Also show the ground or pavement surface and the crown elevation of each facility installed, or installed and placed out of service, accurately to within 1 inch at the ends and other points physically observed. Show the remainder of the vertical alignment of the crown of each facility installed, or installed and placed out of service and note the accuracy with which the installation was monitored. On profile plans for bore paths crossing the roadway, show the Contract Plans stationing. On the profile plans for bore paths paralleling the roadway show the Contract Plans stationing. If the profile plan for the bore path is not made on one of the Contract profile or cross-section sheets, use a 10 to 1 vertical exaggeration.

A 4. If a bore path is not completed, show on the plans the failed bore path along with the name of the utility owner and the final bore path. Note the failed bore path as "Failed Bore Path." Also show the location and length of the cutting head and any product not removed from the bore path.

5. Show the crown elevation, diameter and material type of all utilities encountered and physically observed during the subsoil investigation. For all other obstructions encountered during subsoil investigation or the installation, show the type of material, horizontal and vertical location, top elevation and lowest elevation observed, and note if the obstruction continues below the lowest point observed.

ARTICLE 556-7 is deleted and the following substituted:

F **556-7 Compensation.**

No direct payment will be made under this Section. Include the cost to perform this operation in the Contract unit price for the item being installed.

No compensation will be made for failed bore paths, injection of excavatable flowable fill, products taken out of service or incomplete installations.

No compensation will be made for the pay item associated with the jack and bore until a Bore Path Report has been submitted to the Engineer.

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