

ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION
FOR
EXPLORATORY INVESTIGATION, UTILITY

RCOC/TOC/DESIGN

PAGE 1 OF 3

RCOC20SP204C
ORG:02-17-22

a. Description

This work shall be done in accordance with section 204 of the *Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction*, except as herein provided.

This work consists of exploratory excavation investigation work required to locate active, abandoned, or unknown underground utilities in three dimensions as-directed by the engineer. This work shall be completed where the existing location of potential underground conflicts with proposed work cannot be readily identified horizontally and/or vertically by the utility owner. This work shall only be performed as directed by the Engineer by written authorization, when not already paid for as part of another item of work in the contract, and as specified in the plans.

This special provision is not to compensate for the Contractor's responsibilities in subsection *107.12 – Contractor's Responsibility for Utility Property and Services* as stated in the MDOT Standard Specifications for Construction.

All work required for locating existing utilities in accordance with Michigan Public Act 174 of 2013 shall not be paid for separately.

Perform this work only when possible conflicts are found in the planned work location with the written authorization of the Engineer

b. Materials

All work must be in accordance with the contract documents.

Use Granular Material Class III in accordance with section 902 of the MDOT Standard Specifications for Construction for backfill. If compaction of each layer to at least 95% of the maximum unit weight cannot be achieved, use Aggregate, 6A or 34R as directed by the Engineer.

When pavement coring is required by the Engineer, core hole backfill shall require multiple materials as-directed by the Engineer including self-compacting aggregate (6A or 34R), two-part epoxy non-shrink grout, asphalt to match existing pavement, concrete to match existing pavement, and existing pavement core material (if structurally sound).

Use material removed during exploratory investigation for backfill only if approved by the Engineer.

c. Construction

Through nondestructive or minimally intrusive excavation methods, either through vacuum excavation, conventional machine excavation, hand digging, or a combination thereof subject to approval of the Engineer, the Contractor shall expose the subsurface utilities to provide the type, size, condition, material, and location. Both the horizontal coordinates and vertical elevation must be obtained and provided to the Engineer. If the technique used to advance the excavation causes any damage to the existing facilities, immediately contact the utility owner, and cease all work until an alternate method is approved by the Engineer.

The Contractor shall notify affected utility companies, in accordance with section 107.12 of the *MDOT Standard Specifications for Construction*, and the Engineer a minimum of three full working days prior to any work and agree on test-hole locations in advance of construction in order to allow for possible design adjustments due to unforeseen conflicts. The owner of any sewer or utility to be exposed will not take the facilities out of service during the exploratory investigation.

This work shall also be done in accordance with current established MISS DIG requirements and *CI/ASCE 38-02, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data* quality level A.

The Contractor will excavate in such a manner to protect existing utilities. Take care to protect the exposed culvert, sewer, or utility from damage during construction. The Contractor is responsible for all costs associated with the repair work and out of service time of all broken or damaged existing culverts, sewers, or utilities as a result of any action by the Contractor. If the exploratory investigation results in damage to utilities, contact the owner of such utility to coordinate the repair. Repair or replace culvert, sewer, or utility, damaged during exploratory excavation, in accordance with the standard specifications and as approved by the Engineer.

Upon field verification of existing utility locations, the Engineer may elect to relocate and/or adjust the location of the proposed work or existing utility.

Any exposed utilities shall be protected, shielded, and supported per the appropriate utility company standards and as directed by the Engineer.

Before backfilling, the utilities exposed must be inspected for damage before backfilling. All costs associated with any repair work to the existing utilities necessitated by the Contractor's work shall be borne solely by the Contractor.

Obtain the Engineer's approval before backfilling the excavation. Complete backfilling no later than 24 hours after approval has been given. Backfill in accordance with subsection 204.03.C of the *Standard Specifications for Construction*. Dispose of excess material in accordance with the standard specifications.

d. Measurement and Payment

The completed work will be measured and paid for at the contract unit price using the following pay item(s):

Pay Item	Pay Unit
Exploratory Investigation, Utility, RCOC	Cubic Yard
Exploratory Investigation, Utility, Vertical, RCOC.....	Foot

Exploratory Investigation, Utility, RCOC includes all costs for, but not limited to, equipment, labor, and materials to complete this item. This pay item only includes exploration beyond the normal limits of excavation of other items of work within the conflict area per the plans, details, and specifications for these other excavation items. Payment includes the excavation, backfill, dewatering and the protection, shielding, supporting, hand locating and/or other safe and Engineer approved means of exposing the utility.

Pay item includes all costs associated with repair or replacement resulting from the Contractor’s activities. Providing necessary lane, shoulder and/or sidewalk closures required to perform work will not be paid for separately. Restoration work will be paid for by other associated items.

Exploratory Investigation, Utility, Vertical, RCOC includes all costs, but not limited to, equipment, labor, and materials to complete this item. This pay item only includes exploration beyond the normal limits of excavation of other items of work within the conflict area per the plans, details, and specifications for these other excavation items. Payment includes the excavation, backfill, dewatering and the protection, shielding, supporting, hand locating and/or other safe and Engineer approved means of exposing the utility.

Pay item will be measured by the foot from top of existing grade vertically to the bottom of the excavation for up to a 4-foot maximum diameter hole, or as approved by the Engineer. The excavated depth of each 4-foot maximum diameter hole will be measured separately for payment.

Pay item includes all costs associated with repair or replacement resulting from the Contractor’s activities. Providing necessary lane, shoulder and/or sidewalk closures required to perform work will not be paid for separately. Restoration work will be paid for by other associated items.