



TeAM Policy

Telecom Applications Management

SUBJECT: Point-of-Entry (POE) from Electric or Telecom Manholes.

POLICY NO.: 002-02-03-X

Policy Statement

The following are guidelines for telecom customers when requesting a penetration point, referred to as a Point-of-Entry (POE) in CECONY's electric or telecom manholes for the installation of service laterals or interconnections into the Verizon/ECS systems.

A POE into a CECONY electric or telecom manhole will be authorized if there is adequate space in the structure to accommodate the additional innerduct required for the fiber optic cable.

Approval of the POE does not give authorization to the telecom customer to leave a splice in the electric manhole.

1. Customer Responsibility:

The telecom customer will submit the POE request to the TeAM Project Specialist electronically (via email), which will include the following:

- Manhole number(s).
- Specify if the structure is an electric, or a telecom manhole.
- Location of manhole(s).
- POE request will be for one or two four-inch diameter conduit to be installed from the manhole to the building POE.
- A preferred wall and an alternate wall POE locations will be submitted. The preferred wall for construction of the POE will be the end walls (the non splicing walls). In the event that the preferred wall is congested, the sidewall will be considered unless space limitations prevent it. Where a manhole is judged by Con Edison to be further congested, the POE's shall be reduced to 2- two-inches or the POE may be denied completely.
- One 4" conduit can be substituted in place of two two-inch conduits.
- If a manhole interconnection is required, the telecom customer will obtain POE information from Verizon/ECS and submit it to the TeAM Project Specialist .
- The Verizon/ECS POE will adhere to the interconnect agreement between CECONY and Verizon/ECS.
- For service laterals, a four-inch pre-cast concrete duct or a four-inch steel pipe will be utilized in electric manholes for all POE's. The POE for an interconnection into a Verizon/ECS structure is two four-inch conduits.

The Project Specialist will inform the telecom customer of the status (approved/issued or not approved) of the POE request and update the tracking system database accordingly.

Construction Phase: Customer Requirements for Service laterals (Steps 3, 4 and 5 are not required for construction of service laterals from a telecom manhole).

The following will be required of the telecom customer when proceeding with the construction phase:

1. The customer's contractor must be a CECONY approved contractor. The Project Specialist, upon request, will supply the telecom customer with a list of approved contractors.
2. The contractor is required to have an approved Health and Safety Plan (HASP) on location with the name of the telecom customer they are working for.
3. If the POE is from an electric manhole, the telecom customer will request a manhole inspection prior to entering the manhole for work in accordance with the Operating Procedures and the TeAM Policy for Manhole Inspections.
4. After the manhole is inspected, the contractor will have a 72-hour window to complete their work after the initial inspection. After 72 hours another inspection of the electric manhole by Company forces will be required. If the manhole is worked continuously and inspected daily by a Company inspector, the contractor can continue to work beyond the 72 hours time frame.
5. The telecom customer must submit a minimum of a 48-hour notice to Central Telecom Services (CTS) in order to assign an inspector to the project for the POE. Notice must be sent via electronic mail addressed to: POE-Request@coned.com. The telecom customer or its contractor must send a daily work location sheet electronically each morning by 7 A.M. to CTS.
6. Trenching from the outside wall and penetration into the electric or telecom manhole to the Point-of-Entry into a building will be the sole responsibility of the telecom customer. The contractor must adhere to all New York City Department of Transportation rules and regulations, as they relate to excavations.
7. The interconnect agreement between Con Edison and Verizon/ECS states that the Point-of-Entry must be sealed at four points:
 - Ducts are to be sealed in the electric manhole.
 - Ducts are to be sealed in both directions in the interconnection box.
 - Ducts are to be sealed in the Verizon/ECS manhole.
8. The Con Edison construction inspector will verify that the contractor has installed a duct plug or another approved method of sealing the duct(s) at the time of construction.
9. It is the responsibility of the telecom customer to ensure that all service lateral conduits are properly sealed at both ends.

Note: Ducts penetrating the electric manhole wall can be pre-cast concrete or steel pipe. The pre-cast concrete ducts on the inside wall of the electric manhole will have a bell end and be faced off flush with the wall. The steel pipe on the inside of the manhole wall will be flush with the wall and faced off. In the trench, an 8-foot length of pre-cast concrete duct or steel pipe will be required before the transition to PVC is made.

Construction of interconnections from the Verizon/ECS POE to CECONY electric manholes is handled by CECONY construction forces.

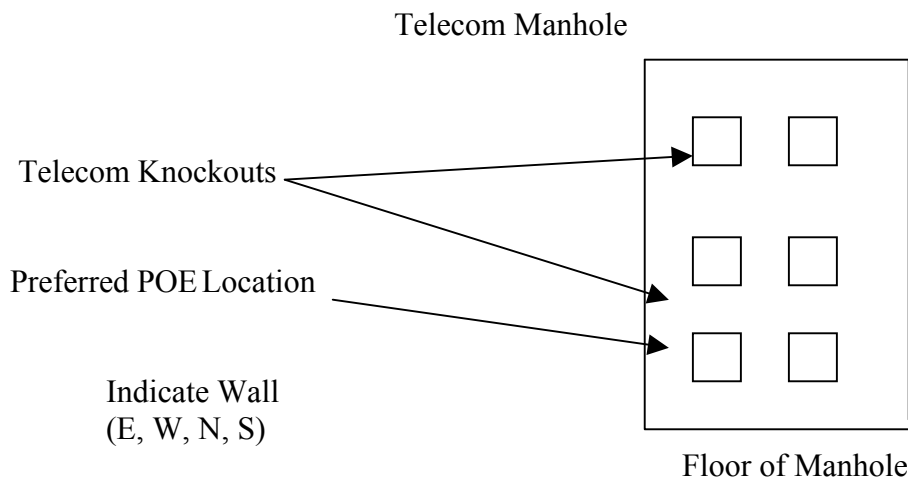
2. Additional Safety Issues

- The Contractor's employees will be required to wear Personal Protection Equipment on the job site as required in the HASP.
- All New York State and New York City Department of Transportation Rules and Regulations will be followed when setting up the manhole worksite and performing excavation work.
- The work site set-up shall be in accordance with Con Edison's "Work Area Protection and Traffic Control Field Manual".

Process:

POE request in Telecom Manholes:

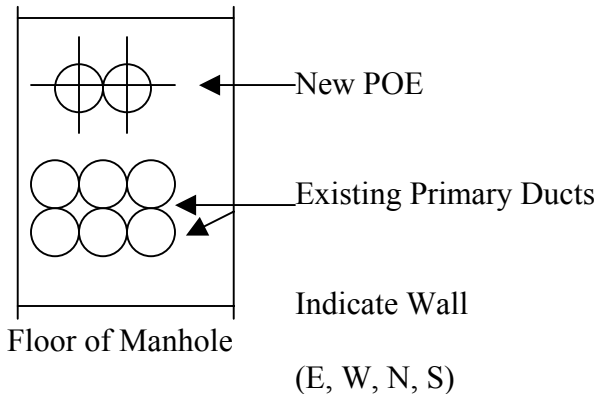
- When the POE request is for a telecom manhole, the Project Specialist will review TeAM's records to determine if the telecom manhole can support the POE request.
- When the telecom manhole can support the POE request, a manhole blow-up of the telecom manhole will be given to the telecom customer. The blow-up will detail which POE knock-out(s) are to be used; always starting with the lowest available knockouts.
- A manhole blow-up will be posted to the Outlook folder; All Public Folders – Customer Service – Telecommunications – POE-Request – Manhole Blow-Up. The subject of the e-mail will have the POE number and manhole structure number.
- Central Telecom Services (CTS) will use the appropriate manhole blow-up during the construction phase to monitor contractor activities.
- The Company construction inspector assigned to the project will make a pictorial representation of the wall (wall sketch) showing the existing duct(s) and the new POE ducts with the required measurements of the new ducts. The wall sketch will be submitted to the TeAM Project Specialist.
- All new service ducts in a telecom manhole will be sealed utilizing a duct plug at the time of construction. The CECONY construction representative will verify the sealing of the ducts.
- The telecom customer must submit a "Request for Use of a Telecom Manhole" form to TeAM. The utilization form allows TeAM to track the number of splice enclosures or single pass through in use in a Telecom manhole.
- The TeAM Project Specialist will send a copy of blow-up to Engineering for their records.



Give above floor and off the wall measurements of new POE

POE requests in an Electric Manhole:

- When a POE request is for an electric manhole, the TeAM Project Specialist will notify the Engineering Department responsible for the appropriate area.
- Engineering at its discretion will either:
 1. Deny or
 2. Assign a planner for designing a blow-up



Give above floor and off the wall measurements of new POE

1. Denial

The determination will be based on the size of the electric manhole, number of electric cables, number and wall location of existing telecom POE's, and number and wall location of new POE request. Engineering will inform TeAM's Project Specialist of the results of the engineering review.

- When Engineering denies the POE request. The Project Specialist will inform the telecom customer and provide possible alternatives.

2. Assign an inspector for designing a blow-up

An inspector is assigned to determine the POE location of the manhole. The inspector will determine if the structure is adequate for additional duct(s). The inspector will issue a manhole blow-up with POE measurements.

The following will take place by the TeAM Project Specialist:

- The manhole blow-up will be posted to the Outlook folder; All Public Folders – Customer Service – Telecommunications – POE-Request – Manhole Blow-up. The subject of the e-mail will have the POE number and manhole structure number.
- Central Telecom Services (CTS) will use the appropriate manhole blow-up during the construction phase when monitoring the contractor's activities.

Note:

1. At the time of construction, if the service lateral POE can not be placed in the primary area, the following procedure for placing the POE in the secondary area will be followed:
 - The M&C Inspector will document the reason for the change of POE location on the manhole blow-up (written description).
 - The M&C Inspector will sketch the interference on the manhole blow-up.
 - The M&C Inspector will show the new location of the POE with measurements on the manhole blow-up.
 - TeAM will be notified, as soon as possible, that the POE has been placed in the secondary area. The Project Specialist will notify the telecom customer of the change.
 - In the event that the POE can not be placed in the secondary area, Engineering will be notified and a field meet will be arranged for a new POE.
 - The modified POE should not be placed in the middle of the manhole wall in the secondary area. This would lead to difficulty in racking of the innerduct, as well as prohibiting electric splicing.