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DESIGN DIRECTIVE

To: Distribution

From: Joseph A. Pavao, Jr., PE 
Acting Chief Engineer

Date: 2/7/2023

RE: Reusable Mechanical Waterproof Conduit Seals for Ductbank and Cable Installations

This Design Directive is intended to consolidate, reiterate, supplement, and clarify the MBTA's approach, preferences, and requirements for all MBTA Stations and Facilities. In the event that conditions warrant deviation from this directive, a design waiver signed by the Chief Engineer and department owning the scope of work will be required of the project.

This directive provides direction as to the application of Conduit Seals to mitigate the infiltration of water between structures and buildings.

Reusable mechanical waterproof conduit seals shall be installed where any conduit or duct, including spares, enters or exits a manhole, building, or structure, regardless of size.

1. All new work related to the installation of duct banks with or without cables shall be installed with reusable mechanical waterproof conduit seals
 - a. At every conduit entering and exiting manholes
 - b. At conduits entering and exiting all buildings and structures including all spare and unused conduits or ducts.
2. In the event of cable replacement or installation of a new cable in existing spare ducts, the application of mechanical seals shall also be applied.