



THE PORT AUTHORITY OF NY & NJ

February 5, 2010

Mrs. Fatma M. Amer, P.E.
Deputy Commissioner
Technical Affairs & Chief Code Engineer
NYC Department of Buildings
280 Broadway, 7th Floor
New York, NY 10007

Dear Fatma:

As you know, there are two accepted methods for approving proposed concrete mix proportions. Approvals can be based on either field or laboratory trial mix data. On occasion, we can support mix proportion approval for some mixes based on our field data, but for most batch plants, materials have changed and laboratory tests are required.

We are requesting authorization to approve proposed concrete mix proportions on the satisfactory results of one laboratory trial batch and not the typical four at the World Trade Center (WTC) Redevelopment project.

We are being required to batch concrete and test proposed mix proportions for work performed at the WTC in our concrete laboratory, because testing laboratories are reluctant to provide the standard laboratory trial test results for proposed concrete mix proportions.

The laboratory trial mix proportions batched for any given design and placement condition are based on our collective experiences, and we are familiar with most of the materials being batched. If the one trial mix meets the over design requirements, it serves no practical purpose to batch three similar mix designs for additional confirmation. For many submitted concrete mix proportions, we have field test data for similar mixes. Furthermore, on many occasions, we are rebatching a previous mix that had performed well, but we are changing only one of the material sources.

It is our professional opinion that batching one confirmatory trial laboratory mix that meets the strength over design, as required by code, should provide sufficient proof that the proposed mix will meet strength requirements.



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**Letter to Fatma M. Amer
Deputy Commissioner –
Technical Affairs and Chief Code Engineer**

Based on the above, when concrete mix design submittals are supported by Port Authority laboratory data, authorization is requested to approve these concrete mix proportions with only one laboratory trial batch.

Very truly yours,

Casimir J. Bognacki, P.E.
Chief of Materials Engineering

Approved:

Fatma M. Amer, P.E.
Deputy Commissioner
Technical Affairs & Chief Code Engineer
NYC Department of Buildings

Date

cc: Francis J. Lombardi, P.E.
Chief Engineer
The Port Authority of NY & NJ

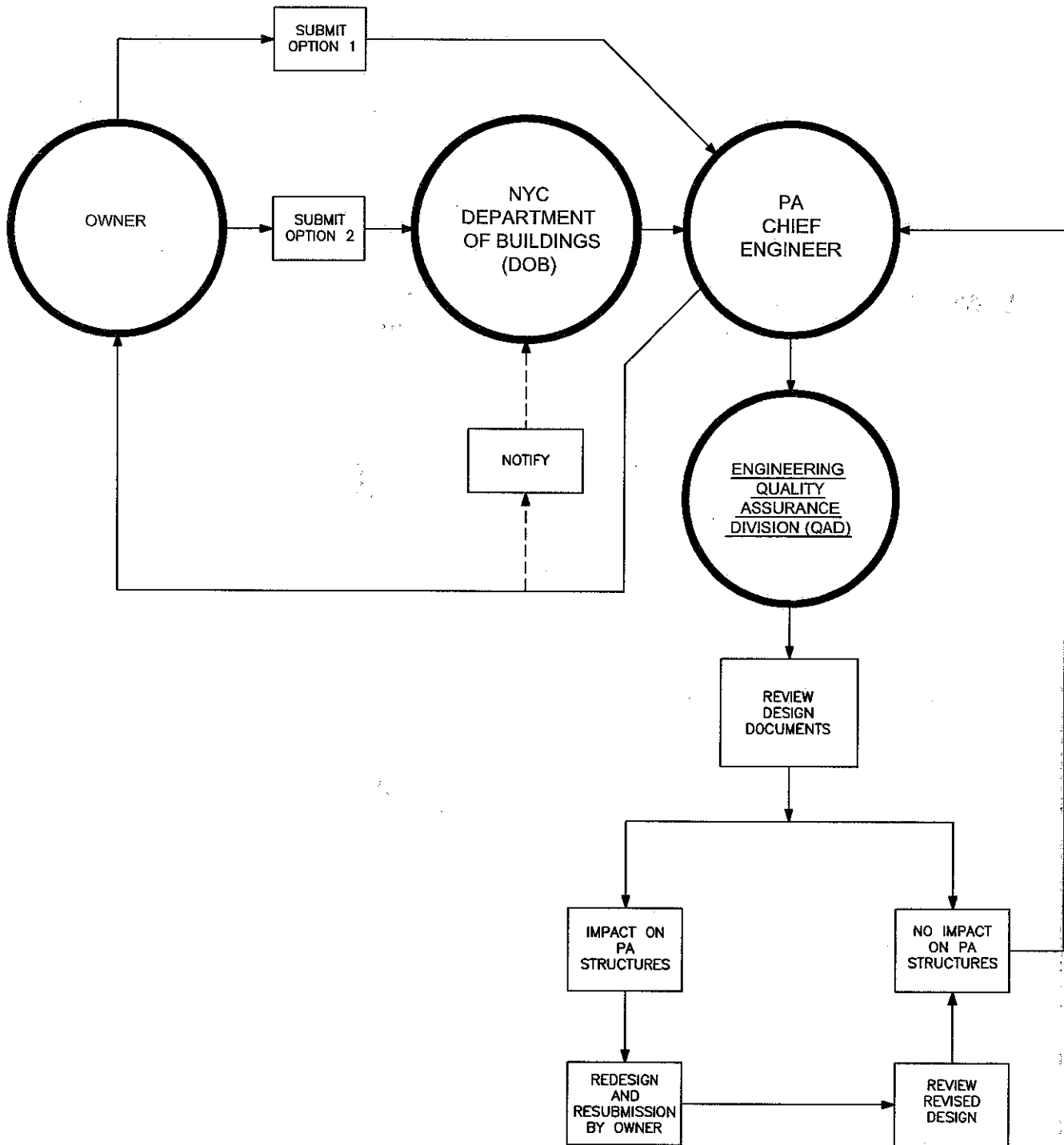
Peter J. Zipf, P.E.
Deputy Chief Engineer
The Port Authority of NY & NJ

James Starace, P.E.
Deputy Director -Construction
Engineering Department

Saroj Bhol
Manager
Construction Design Standards
The Port Authority of NY & NJ

ARC PROJECT

INTERACTION FLOW CHART AMONG OWNER, NYC DEPARTMENT OF BUILDINGS, & PORT AUTHORITY OF NY&NJ FOR EXCAVATION WITHIN 200 FEET OF ARC TUNNELS



MEETING SUMMARY

Date of meeting: February 25, 2010
Location: NYC Department of Buildings, 280 Broadway, New York
Subject: ARC Project
Purpose: Discuss the procedural requirements for the notification of property owners who plan to construct/modify their property within the notification zone of the ARC Tunnel project.

Attendees: Fatma Amer - DOB
Steven Kramer - DOB
Keith Wen- DOB
Gus Sirakis - DOB
Dan Eschenasy - DOB
Andrew Lynn - PA
Frank Lombardi - PA
Peter Rinaldi - PA
Saroj Bhol - PA
Gerry Gaeta - PA
Mario Palmieri - PA
Louis D'Amico - HYDC
Aron Kirsch - HYDC

Discussion:

1. Frank Lombardi (FL) presented the PA's suggested protocol for notification by the property owners within the notification zone and summarized the Design Criteria and Standards previously provided to DOB.
2. Fatma Amer (FA) indicated that she reviewed the design criteria and has minor comments. "Serviceability and Functional aspects in PA's Design Criteria for the ARC Tunnel underground structures" need to be more clearly defined by the PA and not left to interpretation by the Property owner. Section 5.4cii of the design criteria and standards will require modification.
3. FA explained that DOB does not monitor/receive notifications from property owners on work being performed that doesn't require a building permit. i.e., borings or test pits. Soil Exploration companies typically are knowledgeable about the locations of underground structures and utilities, and they communicate and coordinate with utility companies or entities (NYCT and DEP) that own the underground structures. Similar communications and coordination can be expected for properties within the notification zone of PA's underground structures.
4. Steve Kramer (SK) suggested that the PA provide information on the properties within the notification zone which DOB should incorporate into the NYCDOB "BIS" system. PA agreed to provide a list of the properties within the notification zone of the ARC Tunnel project to NYCDOB.
5. FA requested that the PA establishes a program for monitoring and assessing the structural stability of adjacent structures and buildings along the tunnel

alignment that could potentially be affected during the construction of the project. FA suggested that a MOU to establish the protocol between PA and DOB for this program, similar to the existing MOU between the MTA and DOB, should be executed. FL indicated that PA has already planned for pre-condition surveys and monitoring of the affected buildings and executing an MOU on this is not an issue. PA agreed to work with the DOB on establishing a mutually acceptable MOU for this project.

6. FA agreed to issue a "Technical Bulletin" that will require all proposed construction within 200 feet of the ARC tunnel project to be reviewed by the PA and the property owners to receive a "letter of no effect" before any construction could proceed. This bulletin would supplement similar requirements in the 2008 Building code for NYCT and EPA underground facilities. The bulletin will only include the ARC Tunnel Project as the "model" for now and then add the remaining PA underground facilities such as PATH, Lincoln and Holland Tunnels, etc., in the future. The Bulletin would also include other Agencies underground facilities also not presently addressed in the current Building Code.
7. The Interaction Flow Chart among the Property Owners, PA, and DOB that was previously given to DOB was discussed. Suggestions were made to substitute the approval and disapproval process with one that will require the owner to redesign and resubmit to the PA until the design achieves "no Impact" on ARC underground structures. PA will modify the flow chart and send to DOB.
8. FL assigned Saroj Bhol (SB) to be the point of contact for the PA with DOB. It was agreed to provide DOB a modified flow chart, information on the properties that fall within the Notification Zone, and a copy of the current planned ARC pre-construction and construction program in preparation for drafting an MOU.