

**FITERMAN HALL-30 WEST BROADWAY, NEW YORK, NY  
SCAFFOLD WORK PLAN AMENDMENT FORM**

**DATE FORM SUBMITTED: 07/10/2007**

Title Regulatory Submittal Part I(S): Scaffold Erection Operation Work Plan Remediation and Deconstruction of Fiterman Hall, 30 West Broadway, New York, NY March 16th, 2007.

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**AMENDMENT #5**

**Date Implemented: July 07**

PAL is requesting the SEO Work Plan and Variance be amended to allow the asbestos waste container or trailer to be located inside of the construction barrier and within the lane closure on Greenwich Street. Barriers will be installed around the perimeter of the lane closure to prevent traffic incursion. This lane closure permit will be kept current for the duration that the container must be located within the closure.

**Reason for Amendment:**

During the development stage of the SEO, PAL logistical analysis of the Fiterman Hall site determined that the only possible location to locate an asbestos waste container within the boundaries of the site would be on the Greenwich Street side of the building at the corner of Park Place. In order to do so, it was necessary for PAL to obtain a permit from the NYC Department of Transportation (DOT) to close the sidewalk on Greenwich Street and include this sidewalk within the site boundaries. PAL's initial application for sidewalk closure on Greenwich Street was denied by NYC DOT. Without this closure, it was not possible to locate the waste container as initially determined due to space restrictions. PAL has re-applied to NYC DOT for the sidewalk closure and DOT has approved the application and issued a permit (Permit No. M02-2007170-060). PAL has applied for a lane closure on Greenwich St. and the NYC DOT has granted approval and issued a permit (Permit No. M02-2007136-187). The sidewalk and lane closure will be maintained for the duration of the scaffold installation. PAL will relocate the construction fence to enclose the sidewalk and the Greenwich Street lane closure within the site. This will permit the waste container or trailer to be located within the site and within the Greenwich Street lane closure. Pedestrian traffic will not pass through the path of asbestos handlers transporting waste to the container in the lane closure.

**Sections of SEO Work Plan Affected:**

Section 6.3 & 6.4 of the SEO Work Plan have been amended to replace the language "a forty (40) yard asbestos waste container will be located on the northwest corner of the Building site (corner of Park Place and Greenwich Street) inside the construction barrier"

with "an asbestos waste container or trailer will be located within the Greenwich St. lane closure". Attachment IV - Logistics Plan (attached) has also been adjusted to reflect the changes proposed in this amendment.

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## **AMENDMENT #6**

**Date Implemented: July 07**

The purpose of this amendment is to obtain the regulators' approval for the installation of shoring during the scaffold phase of the project. Shoring will be required beneath the 5<sup>th</sup> Floor and 14 Floor Set Back Roof Levels. All shoring installation activities will be monitored by an NYS DOL certified project monitor. The required shoring will be performed by scaffold/shoring installation personnel who have valid asbestos awareness certification and are equipped with abatement work area PPE. PPE for shoring installation shall be: disposable coverall suits with hoods, half-face APR equipped with P100 filter cartridges, nitrile gloves, safety goggles, work boots, rubber boot covers, hard hats and hearing protection (only if noise levels exceed OSHA decibel limits). The existing decontamination unit at the northwest entrance to the 1<sup>st</sup> Floor will be used for interior shoring related decontamination activities. Shoring to be installed will be made of steel. The exact location and layout of shoring will be determined by the engineer of record for the scaffolding installation. NYS DOL and NYC DEP certified asbestos handlers equipped with abatement work area PPE will perform pre-cleaning of the surfaces at each location where the shoring will be installed. Pre-cleaning activities to be performed will include HEPA vacuuming and wet-wiping. In addition, depending on the exact location of the shoring, minor removals of raised flooring, ceiling tiles, and/or ceiling grid may be necessary prior to installation. Any waste generated will be containerized, decontaminated and stored in the existing SEO waste storage facility for disposal as asbestos waste at a minimum, and in accordance with any waste characterization testing deemed necessary by the Owner's Environmental Consultant. Limited ACM removal (i.e. VAT) if necessary, will be performed at shoring installation areas only. Should limited abatement be necessary, NYS DOL and NYC DEP certified asbestos handlers will wet down the ACM with amended water and remove it by manual means. Any asbestos waste generated will be containerized, properly labeled, decontaminated and stored in the existing SEO waste storage facility for disposal as asbestos waste at a minimum, or in accordance with any waste characterization testing deemed necessary by the Owner's Environmental Consultant. Any ACM abated areas will be cleaned by HEPA vacuuming and wet-wiping. After these surfaces are cleaned, they will be encapsulated. After pre-cleaning and removals are complete, the installation areas will be visually inspected by the Owner's Environmental Consultant. The visual inspection will be performed by the NYS DOL certified project monitor. The project monitor will verify that the installation areas have been properly cleaned and are free of bulk debris, dust and/or residue. If limited ACM abatement is performed, the project monitor will also visually inspect all abated areas. Once the installation areas have passed OEC visual inspection, the steel shoring will be installed based on the engineer of record for the scaffolding specifications by shoring installation personnel equipped with abatement work area PPE. The shoring will be installed in, and remain in, non-cleaned

areas until the cleaning phase of the Remediation Operations reach each level where shoring is installed. Shoring installation personnel with asbestos awareness certification will be instructed that disturbance of ACM is prohibited during the installation procedure.

The following is the procedure for the decontamination of the shoring and the eventual removal of shoring which will be included in the respective submissions:

NYS DOL and NYC DEP certified asbestos handlers will decontaminate shoring by HEPA vacuuming and wet-wiping. Visual inspection of the work areas where shoring is installed will be performed by the Owner's Environmental Consultant upon the completion of cleaning activities in these work areas. Once the affected work areas pass OEC visual inspection, the regulators will be contacted to perform regulatory visual inspection of these work areas. Twenty-four hour notice will be provided to the regulators prior to the date of regulatory visual inspection. After the work areas have passed regulatory visual inspection, final aggressive air clearance will be run. After successful clearance is achieved, lockdown encapsulant will be applied to all surfaces including the shoring. After encapsulation, the modified full containment on the affected work areas will be broken down. The shoring beneath the Setback Roof Levels will remain in place after the work areas are broken down since the scaffold must remain in place for deconstruction. As the deconstruction activities proceed down the Building, the scaffolding will be taken down level by level by deconstruction personnel. Once the deconstruction activities reach a Setback Roof Level and the exterior scaffolding on that Roof Level has been removed, the deconstruction personnel will remove the shoring beneath the affected level.

The cleaning procedure for shoring will also be included in the revised Part I(R) - Remediation Operations Work Plan.

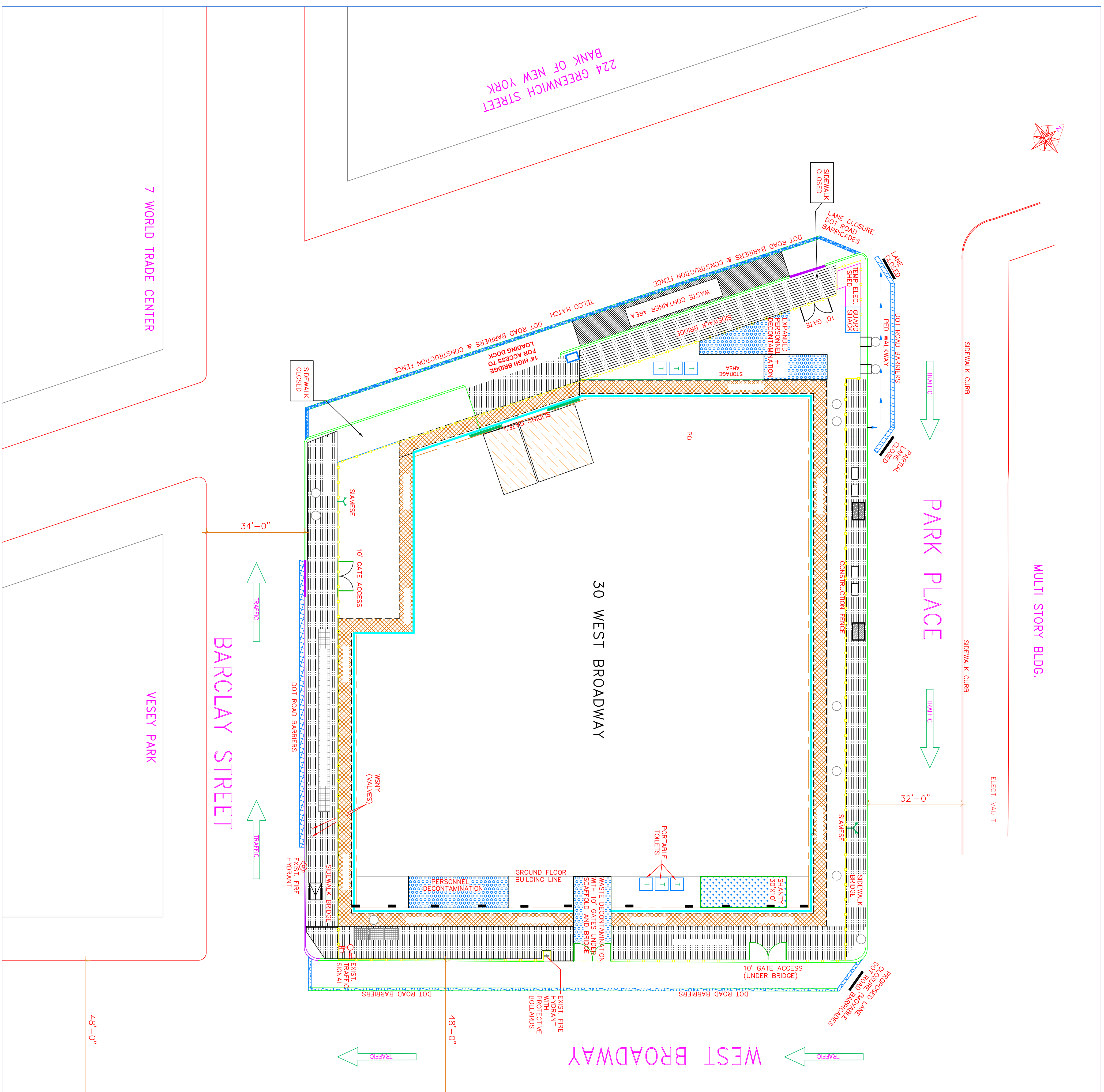
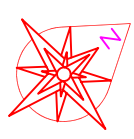
The removal procedure for shoring will also be included in the Part 1(D) - Deconstruction Operations Work Plan that will be submitted to the regulators for review under separate cover.

**Reason for Amendment:**

During the development of the SEO Work Plan, initial analysis of the stability of the Building indicated that it would not be necessary for workers to enter the interior in support of the scaffolding installation. Further engineering analysis has indicated that it will be necessary enter the Building in order to install shoring beneath the setback roof levels to support the loads imposed by the scaffold on these roof levels.

**Sections of SEO Work Plan Affected:**

The above text has been added to Section 6.8 Scaffolding Erection of the SEO Work Plan.



MULTI STORY BLDG.

53 PARK PLACE

PARK PLACE

30 WEST BROADWAY

WEST BROADWAY

100 CHURCH STREET  
19-STORY BUILDING

7 WORLD TRADE CENTER

VESEY PARK

U.S. POST OFFICE

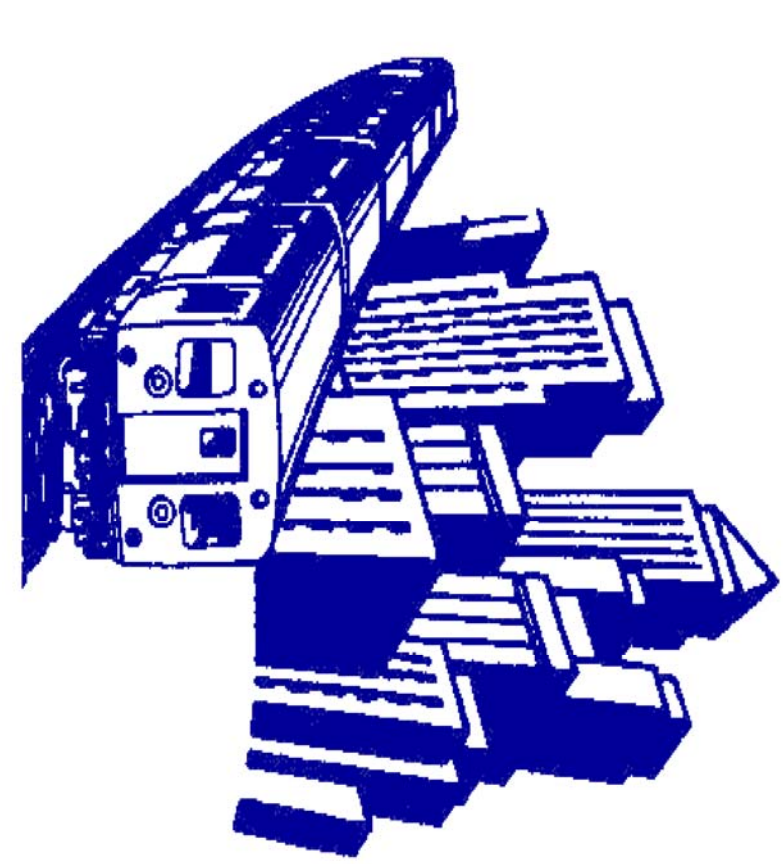
224 GREENWICH STREET  
BANK OF NEW YORK

**NOTES:**

- Sidewalk Bridge
- Waste Container Area
- Scaffolding
- NYCTA for chamber access hatch
- Construction Fence
- Sidewalk Curb
- Building Line
- Curb Line
- Access Gate
- Columns
- Stormse
- Telco Hatch
- NYCTA, emergency exit hatch

**DOT PERMITS REQUIRED:**

1. Park Place— partial sidewalk closing; partial lane closure; jersey barriers on roadway;
2. West Broadway— lane closure; barriers on roadway; sidewalk closing, fence, guard booth, portable toilets, shanty/storage on sidewalk;
3. Barclay Street— partial lane closure; jersey barriers on roadway;
4. Greenwich Street— lane closure guard booth, portable toilets, shanty/storage and barriers on roadway.



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DATE	05/01/07	PER BOB REV
DATE	04/24/07	PER BOB REV
DATE	02/12/07	LANE CLOSING
DATE	01/29/07	LANE CLOSING
DATE	01/29/07	DECON/WASTE
DATE	01/08/07	MANHOLES
DATE	12/11/06	MOVE BRIDGE
DATE	12/07/06	REVISION
DRAWN:	SC	
REVIEWED:	BT	
APPROVED:		
DATE:		12/07/06
SEAL:		

**P.A.L. ENVIRONMENTAL**  
 FITERMAN HALL

**REMEDICATION PHASE**  
 LOGISTICS PLAN

**SS-2**