

**FDNY**  
**INCIDENT ACTION PLAN**  
**OPERATIONAL PERIOD**  
**SUNDAY**  
**NOVEMBER 25, 2001**  
**0700 – 0700**



*PH*

**OPERATIONAL PERIOD**

Sunday 11/25/01 0700 – Monday 11/26/01 0700 hours

**OVERALL INCIDENT OBJECTIVES**

1. Provide for the health, safety, and welfare of all personnel working around the incident.
2. Provide for the recovery and identification of as many remains as possible, and return to next of kin.
3. Coordinate with all involved agencies to support the operational needs of the incident.
4. Document all critical items and significant events.

**OPERATIONAL FACILITIES AND LOCATIONS**

Incident Command Post	100 Duane Street
Operations Post	10/10 Station (Liberty & Greenwich)
West Command	Vesey & West (West & Liberty Sectors)
East Command	Liberty & Church (Church & Vesey Sectors)
FDNY Cache	Quarters of 10 & 10 – open 0800-2000 hrs.
FDNY Parking	West & Warren Streets

**OPERATIONAL RESOURCES****FDNY WTC TF**

Recovery Team	75 Officers & Firefighters
Suppression Team	10 Officers & Firefighters
FAST Team	7 SOC Officer & Firefighters
GPS/BFU Team	10 Officers & Firefighters per 24 hour tour

**FDNY/EMS**

17 people per day shift / 16 people per night shift

**WEATHER FORECAST**

**Day:** Cloudy, high 63 degrees, winds SE-S 12-20 mph, 60% chance of precipitation.

**Night:** Cloudy, low 50's, winds S 15 mph, 70% chance of precipitation.

**Outlook:** Monday, cloudy high lower 60's, windy 15-20 mph, 60% chance of precipitation.

**Anemometer Locations:** 11<sup>th</sup> floor of the Verizon Building, 3<sup>rd</sup> floor 10/10 Station, 17<sup>th</sup> floor of 125 Liberty, 10<sup>th</sup> floor of 2 WFC, OEM Command Bus at West & Warren, East Command, and Federal Post Office.

## **ACCOMPLISHMENTS (Past 24 hours)**

### **CONTINUING ACTIONS**

1. Application of water to South Tower area and where heat and smoke are escaping in an attempt to extinguish/reduce the heat. Operation continues.
2. Operations continue on debris removal from the North Tower area with intermittent use of handlines to cool debris.
3. Steel cutting @ Bankers Trust (130 Liberty St.), from 23<sup>rd</sup> floor down to 11<sup>th</sup> floor continues on a 24-hour basis with a shift change between 1700 – 1900 hours. Handline fire prevention/suppression support from FDNY will be necessary on a floor-by-floor basis. Welding of bracing on floors 19-22. This work continues.
4. Demolition of 6 WTC continues. Hand line fire prevention/suppression support from FDNY required on Vesey St. on a 24/7 basis.
5. Steel cutting @ 30 West Broadway. Specialized demolition at various floors, including removing a portion of the 8<sup>th</sup> floor slab. Handline for fire prevention/suppression support from FDNY will be necessary.
6. Demolition of 5 WTC continues. FDNY support needed for fire suppression/fire prevention.

## **PLANNED ACTIONS (Next 24 hours)**

### **ANTICIPATED ACTIONS (48 - 72 hours)**

1. Insertion planned on 11/27/01 @1900 hours into PATH mezzanine and sub-grade parking areas for insurance inspection. SOC escort required.

## **SPECIAL INSTRUCTIONS**

1. **FDNY Sector Chiefs will approve all searches.**
2. **No open flames or warming fires. All fires will be extinguished by the BFU.**
3. Operations Post is requested to fax the name of the Safety Chief for each tour to the Incident Command Post.
4. **PPE requirements are as follows:**
  - Red Zone – Helmet, Safety Glasses & Safety Shoes, Coveralls, Long-sleeved Shirts.
  - Inner Zone – Helmet, Safety Glasses, Safety Shoes, Respirators, Coveralls & Long-sleeved Shirts. FD Helmets with reflective tape or FD Bunker coats must be worn when working on the pile.
5. FDNY personnel parking is located on the south side of Warren St., 250 feet east of West St. Access to the FD parking lot must be made through the West & Chambers Street checkpoint. Members will be issued a site access card at the beginning of their shift. These access cards must be prominently displayed to allow entry onto the site. The access cards shall be handed in at the end of the shift. Coveralls and respirators will be available at the FD Warren St. parking lot.
6. GPS is to be used to plot locations of all victims, remains, fire equipment and apparatus. If the GPS is not operational, hand held GPS operators will manually record grid locations using a **grid map dated 09/20 or later**. GPS units are available through the Sector Chiefs, who shall contact the GPS Team via channel 5.
7. When any SCBA or compressed gas cylinders are found, the Sector Chief will contact ICP for Fire Prevention notification. Cages are at East & West Command for temporary storage of cylinders.
8. Enclosures on North and South projections on West Street are locked. The keys will be located with the FDNY Command Post, NYPD Officer at enclosure, and OEM.
9. Prior to any vehicles being removed/towed from buildings, FDNY Operations Chief must determine if a foam handline is needed.
10. A charged handline must be in position prior to any steel cutting operation inside of buildings.
11. Void entries and searches where elevated Freon readings exist (1 & 2 WTC) require O<sub>2</sub> monitoring prior to entry.
12. All Fire Department members (all ranks) will report to the West Command Post, ready for duty no later than 0700 or 1900 hours.
13. Crane Site Safety and Contingency Plan have been reissued.
14. Remains Recovery Protocol from OCME issued.
15. New exclusion zone established. (Demolition of S/E corner of 3 WTC), see attachment.

## **DEPARTMENT OF DESIGN AND CONSTRUCTION UPDATE**

### **ACCOMPLISHMENTS (Past 24 hours)**

1. 66 tiebacks installed in slurry wall south of 2 WTC (Liberty Street)/ 48 tensioned. Installation of tiebacks on east wall will commence shortly.
2. Shoring completed #1 & #9. Crane expected to be moved 11/25.
3. Removal of debris adjacent to Greenwich St. slurry wall.

### **PLANNED ACTIONS (Next 24 hours)**

1. Continued debris removal in footprints of 1,2,4,5 & 6 WTC.
2. Dewatering via North & South Projections continues.
3. Debris removal between 6 WTC and 1 WTC North Façade will continue for recovery.

### **ANTICIPATED ACTIONS (48-72 hours)**

1. Core drilling and tiebacks continue on Greenwich, Liberty & West Streets.
2. Dewatering of PATH from North Projection & Refrigeration Plant from South Projection.
3. Demolition of the S/E corner of 3 WFC to commence. New exclusion zone as per attached drawing.
4. Debris removal to continue in footprints of 1,2,4,5 & 6 WTC.
5. Relocation of Lieb Herr 1400 crane from West Street to Greenwich Street for northeast façade removal.
6. Insertion to PATH Mezzanine via Barclay St. ramp for PATH equipment salvage. To be scheduled.
7. Insertion planned on 11/27/01 @1900 hours into PATH mezzanine and sub-grade parking areas for insurance inspection. SOC escort required.

There is an OEM representative located at the OEM trailer (Murray and West - 212 941-5337) to contact DDC to handle contractor problems. To contact the contractors on site, DDC has a person stationed at 10/10 to assist. OEM is also the contact for OSHA.

## LOGISTICS

1. All Fire Department members (all ranks) will report to the West Command Post, ready for duty no later than 0700 or 1900 hours.
2. FD members parking will be located on the south side of Warren St., 250 feet east of West St.
3. Access to the FD parking lot must be made through the West & Chambers Street Checkpoint.
4. FD ID cards will be needed for access.
5. Coveralls and respirators will be available at the FD Warren St. parking lot.

### Meal Sites are as follows: Water and Snack Sites are:

St. John University at 101 Murray	West & Vesey
Marriott WFC Hotel, Albany & West	Church & Dey
Salv. Army in Median of West/Murray	Cortlandt & Church
	Liberty & West

### Sanitation Sites are as follows: (See attachment)

Personal hygiene stations are in place on Liberty between Church & Greenwich  
Personal hand washing stations are available at all the above meal sites  
Boot washes, hand & eye wash stations at West & Murray, St. Johns Univ.,  
West & Rector. **Showers are available** at the following locations:  
West & Albany, Trinity & Cedar

### EPA Winterized Wash Stations:

Biosphere at West & Vessey (main station)  
West Broadway & Park Place – satellite location  
Fulton St. between Church & Broadway - satellite location  
Trinity & Cedar - satellite location  
Albany & West (Bovis Yard) - satellite location

### Lockers:

112 lockers are available for members at the Biosphere (West & Vesey Streets)

### MEDCOR Medical Sites:

Fulton St., east of Church St.  
Vessey St., west of West St.

Cache Site (@ 10/10 Station is as follows: **Supplies are for uniformed emergency personnel only.**

### WEST COMMAND POST

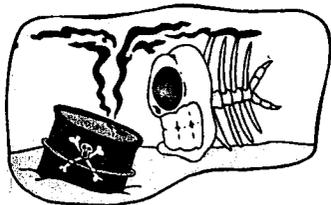
212-608-7753  
212-608-7754 (Data Recorders)  
212-608-7797  
212-608-8048  
212-608-9556 fax  
212-608-9801 fax (Data Recorders)

### EAST COMMAND POST

212-425-4201  
212-425-4231  
212-425-4217  
212-425-4180  
212-425-4221  
212-425-4096 fax

### APPROVED COMPRESSED GAS STORAGE LOCATIONS (Note: Site although approved, are subject to change):

AMEC Zone:	West Street adjacent to foundation for North Bridge
BOVIS Zone:	Front of 90 West St.
TULLY Zone:	South side of Liberty Street between Broadway and Church
TURNER Zone:	Vesey and West Broadway



## *Safety Message*

11/13/01



### Major Hazards:

Crane Operations

Demolition Operations

Biological Hazards

Dust / Airborne Particles

Falling Glass & Debris

Traffic

Walking and Working Surfaces

Open Shafts

Hazardous Materials

Lack of PPE

Cold Weather

### ❖ *Carbon Monoxide*

- ◆ CO is a colorless, odorless, tasteless, non-irritating, toxic gas.
- ◆ CO is a natural by-product of incomplete combustion from fuels such as gasoline, wood, coal, propane, oil and methane.
- ◆ Virtually undetectable without special instruments.

### ❖ *Health Hazards*

- ◆ CO can kill before its presence is known.
- ◆ Provides no early warning signs & is highly toxic.
- ◆ Displaces O<sub>2</sub> in the bloodstream.

### ❖ *Symptoms of CO Poisoning*

- ◆ Low Level CO Poisoning - Can mimic flu symptoms, headache, fatigue, nausea, dizziness, confusion, irritability.
- ◆ Medium Level CO Poisoning - vomiting, drowsiness, loss of consciousness.
- ◆ High Level CO Poisoning - seizure, coma, permanent brain damage, death.

### ❖ *Operational Guidelines*

- ◆ Are individuals exhibiting symptoms of CO poisoning?
- ◆ A CO meter should be available
- ◆ SCBA shall be worn at all CO investigations and used at all CO Emergencies
- ◆ Members shall work in teams of at least 2 members & be radio equipped.

***AS THE RUBBLE AT THE PILE CONTINUES TO  
BURN ALL VOIDS SHOULD BE SUSPECT OF HAVING  
HIGH CO READINGS.***

# FDNY

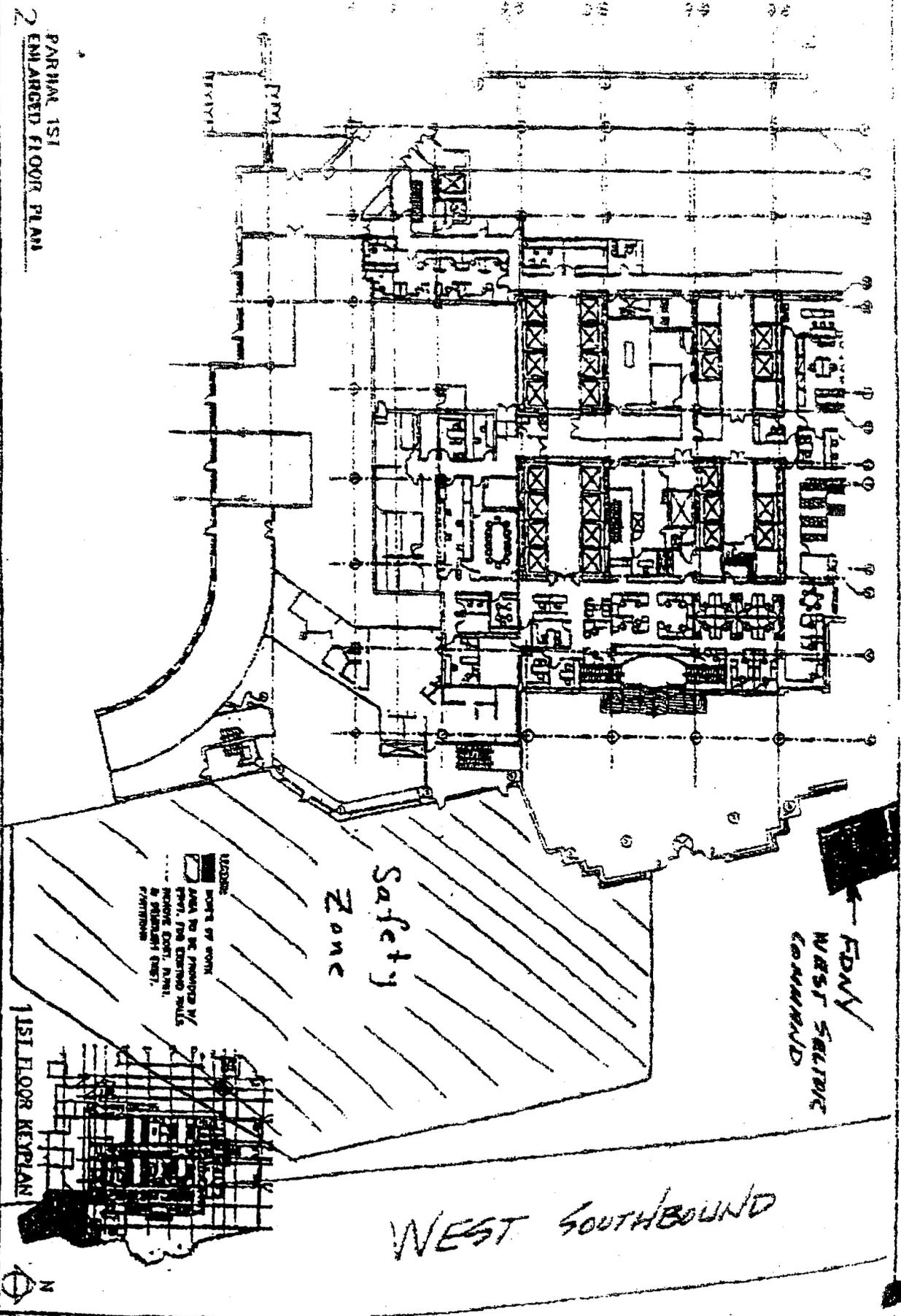
## WTC APPARATUS LOCATIONS

TYPE	LOCATION	ACTIVITY
E 40 MP 8903	IFO 3 WFC on West St	Supplies 2 manifolds 1 IFO 6 WTC & 1 IFO 2 WTC Supplies TL 153
E 40-2 MP 8816	Corner of West & Vesey	Supplies E 40
MP 8815	Corner of Albany & Washington	Supplies 2 ½ line to slurry wall
MP 8915	Corner of Albany and Greenwich	Using deck gun to cool hot spots
MP 8917	West St, 150' south of Vesey	Standby/Reserve
MT 9103D	East side south tower plaza	Standby/Reserve
MT 8705D	IFO 3 WFC	Standby/Reserve
BFU 3 9704	Quarters 10/10	Site patrol

**Operations Command is requested to update this list and return to the Incident Command Post by 1700 hours daily.**

1004  
1004  
1004

2  
PARIAL 1ST  
ENLARGED FLOOR PLAN



Sketch # 1

1ST FLOOR KEY PLAN



ASK-  
11/19/01

PRELIM

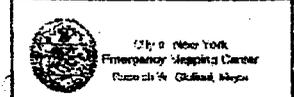
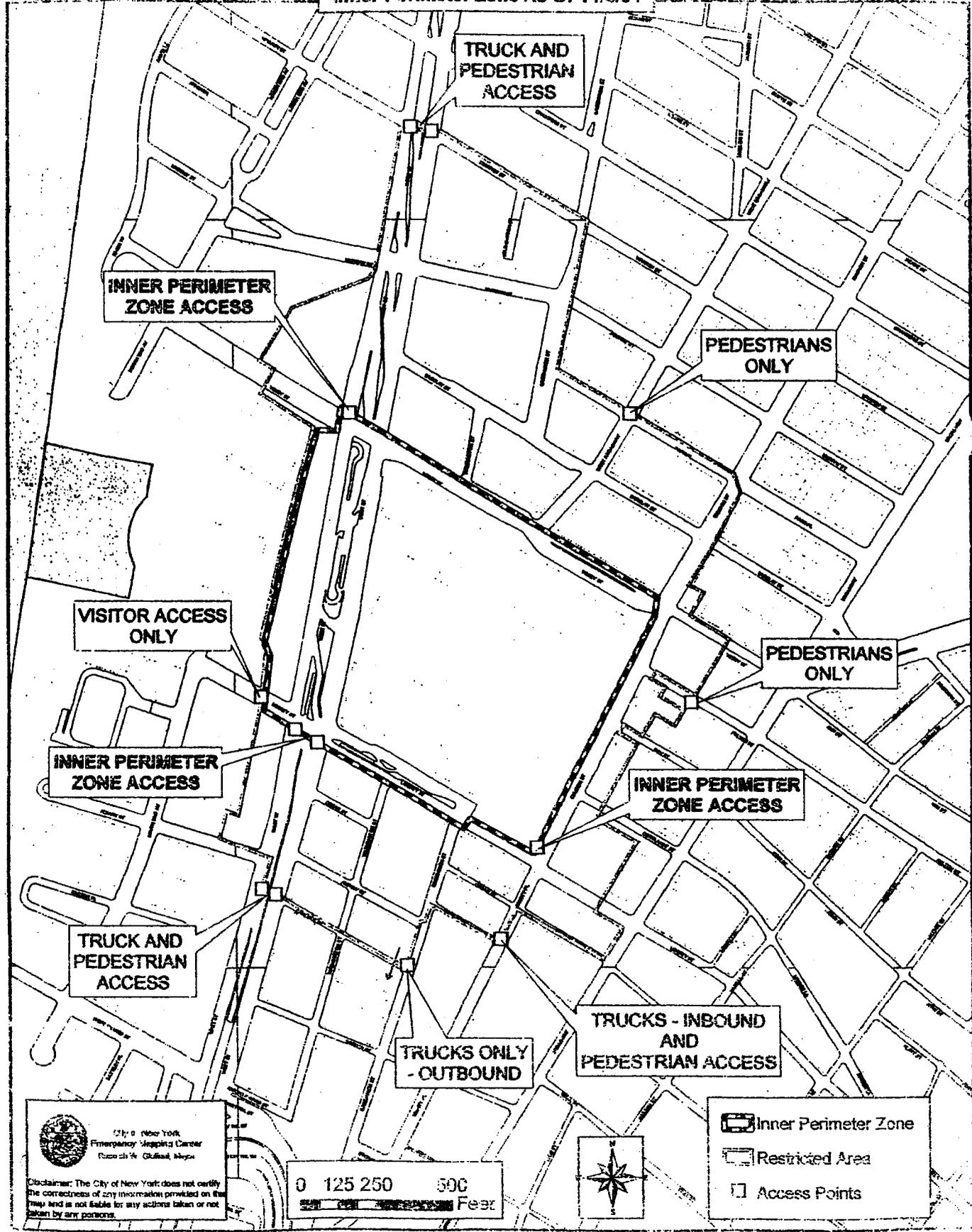
AMEX NYC BLDG ASSESSMENT  
DEMOLITION PLAN  
1ST FLOOR

MC CLIER



100 West Street  
New York, NY 10038  
Tel: 212-692-1000  
Fax: 212-692-1001

Inner Perimeter Zone As Of 11/5/01



Disclaimer: The City of New York does not certify the correctness of any information provided on this map and is not liable for any actions taken or not taken by any persons.

0 125 250 500 Feet



Inner Perimeter Zone  
 Restricted Area  
 Access Points

11/25/01

ITEM	DESCRIPTION	ACTION BY	STATUS
1	INSTALLATION OF GPS SYSTEM ON TRUCKS HAS STARTED, 92 HAVE BEEN INSTALLED, A TEST RUN IS ON-GOING.	DDC	OPEN
2	55 TIE-BACKS ARE INSTALLED. THERE IS TENSION ON 42 TIE-BACKS. CM'S SHOULD START BIDDING FOR TIEBACKS. MUESER RUTLEDGE WILL HAVE SPECIFICATIONS FOR BID PACKAGE BY 12/7/01. CM'S SHOULD HAVE BID DOCUMENTS COMPLETE AND READY FOR BIDDING BY THE SAME DATE. IMMEDIATELY AFTER THE MEETING DDC AUTHORIZED AMEC TO CONTRACT WITH A SECOND TIEBACK CONTRACTOR.	BOVIS	OPEN
3	WORK ON EAST SLURRY WALL EXPOSURE IS ON-GOING. TULLY IS WORKING THE SOUTH END AND BOVIS IS WORKING THE CENTER. THERE IS AN EQUIPMENT EXCLUSION ZONE - OVER THE VISTA HOTEL AND THE CENTER OF THE SITE ALONG THE EAST SLURRY WALL. APPROVED TO EXPOSE WALL FOR FIRST ROW OF TIE-BACKS SOUTH TO PANEL 23.	BOVIS/TULLY	ON-GOING
4	<i>floors 9 to 11 - heavy debris complete 12/1</i> DEBRIS REMOVAL AND SHORING OF BANKERS TRUST IS ON-GOING. EXPECTED COMPLETION 12/1. BRACING IS COMPLETE. WORKING W/ ATLANTIC HEYDT THRU BOVIS. INSTALLATION OF PLATFORM BEGAN 11/14.	TULLY	ON-GOING
5	BOB ADAMS ISSUED A SAFETY PROTOCOL ON AMMUNITION.	DDC	OPEN
6	SAMPLES WHERE TAKEN OF B6 LEVEL WATER. BOB ADAMS WORKING ON PROTOCOL TO ENTER BELOW GRADE LEVELS SAFELY. B6 WATER LEVEL IS DOWN. PENETRATION TO ACCESS CHILLER AREA AND TANKS WAS ONLY PARTIALLY SUCCESSFUL. NEW METHODS OF PENETRATION WILL BE DISCUSSED.	DDC/BECHTEL	OPEN
7	SIDEWALK BRIDGE ON THE WEST SIDE OF 30 WEST BROADWAY HAS BEEN INSTALLED. SCAFFOLD, SHORING AND NETTING TO BE DONE. TURNER EXPECTS TO TURN BLDG. OVER TO CUNY BY MID-DECEMBER SINCE THE ELEVATOR KEEPS BREAKING DOWN. CUNY WILL DO ALL WINTER PROTECTION WORK. CUNY TO START DRAIN DOWN ASAP.	TURNER	ONGOING
8	EACH PRIME SHOULD LOOK AT EFFICIENCIES OF THEIR OPERATION AND GIVE ANY RECOMMENDATIONS ON HOW TO IMPROVE THEM. ENTIRE PROJECT EFFICIENCY TO BE REVIEWED, INCLUDING CRANES.	4 PRIMES	ON-GOING
9	3 PRIMES ARE DIRECTED TO BID TRUCKING. DETAILS TO BE REVIEWED AT EFFICIENCY MEETING. TULLY TO DRAFT A SCOPE OF WORK AND PROVIDE TO OTHER CM'S FOR DISCUSSION.	3 PRIMES	OPEN
10	SHORING IS DONE IN THE #1 AND #9. CRANE SHOULD BE IN PLACE BY 11/25.	TULLY	OPEN

*12/11/01  
12/11/01  
12/11/01*

21	TULLY	TULLY TO MEET WITH VERIZON AND CON ED TO DISCUSS WORK ON WEST STREET AND WILL UPDATE DDC	OPEN
20	4 PRIMES	VENDEKS FOR ALL SUBCONTRACTORS SHOULD BE SUBMITTED. 3 CM'S HAVE NOT SUBMITTED ANY VENDEX.	OPEN
19	4 PRIMES	CM'S TO PROVIDE WRITTEN SCOPE OF WORK BY 11/20.	OPEN
18	TURNER	TURNER IS COMPILING "AS-BUILT" SCHEDULE. DRAFT OUTLINING REQUIREMENT WILL BE DISTRIBUTED TO PRIMES, TODAY 11/19.	OPEN
17	4 PRIMES	A SIDEWALK SHED REMOVAL LIST HAS BEEN ISSUED. ESCHENASY WILL DO A FINAL INSPECTION BY FRIDAY 11/23.	OPEN
16	DDC	FOOD SERVICE IS SCHEDULES TO STOP ON 12/1/01. UPDATE ON 11/21. EPA TAG "Bldg"	OPEN
15	DDC	RAMP ACCESS MEETING HAS OCCURRED. BOVIS IS UPDATING THE MAP. COPIES TO BE DELIVERED THIS AFTERNOON 11/19. <i>Review</i>	OPEN
14	4 PRIMES	FIRE BARRELS ARE NOT PERMITTED. ALL OPEN FIRES WILL BE PUT OUT.	OPEN
13	DDC	MEETINGS FOR DUST SUPPRESSION IN THE WINTER ARE ON-GOING.	OPEN
12	4 PRIMES	WE WILL BE WORKING ON THANKSGIVING DAY. RECOVERY OPERATIONS SUPPORT ONLY. A LIST OF ACTIVATES SHOULD BE SUBMITTED AND HOW THEY WILL BE SUPPORTED BY TUESDAY 11/20.	OPEN
11	4 PRIMES	CM'S TO SUBMIT COMMENTS ON EQUIPMENT REIMBURSEMENT PROCEDURES ASAP. MEETING ON EQUIPMENT REIMBURSEMENT WAS DONE. ONLY ONE ISSUE TO RESOLVE BY EARLY THIS WEEK. AWAITING FEMAS COMMENTS.	OPEN





## ATTENDANCE SHEET

SUBJECT

Contractor Mtg.

DATE

11/19/01

TIME

9:00AM

NAME	COMPANY	TELEPHONE
Ed June	OSHA	337-2371
M Burt	DDI	
A. RICHTER	FDNY	
E Kalkra	FDNY	
John Marinno	FDNY	
W. MURRAY	TCC Plaza	646 879-0997
Jim Miller	Angel Aerial Corp	516 250 1620
LEE MORRIS	FDNY	
Kevin Kennedy	NYCHA	718-243-4733
Brian Peters	PROVIS LL	917-758-5038
Paul Ashlin	B2L	646 523 2003
David GRIFFIN	DH GRIFFIN	646-879-4376
INSP. Smolka	NYRD-ABMS	(516) 477-7801
Tom DePrisco	O. EM.	347-203-4177
Garrett Hean	OSM	917-337-3281
Allison Meyrowitz	CON Edison	718-204-4295
John W. W.	SAM	609 720 -3534
GREGORY B. DEANGELO	EPA	732-689-0008
Eric Wilson	EPA	347 386 3807
RON HERRING	USPHS	347-231-4362
ROBERT ADAMS	DDC	(917) 939-6744
John O'Connell	FDNY	914 850 0163
John Rabovsky	Liberty Mutual	917-658-9172
Robert Erdody	Verizon	917 577-613-2682
DENNIS GILL	VERIZON	965-5702
7 words	PA	973 8390 5523
Mandy Concoran	WEEKS Marine	908-388-0507