



## Foundation Work Begins at WTC Vehicle Security Center Project

The next major phase of work at The World Trade Center Vehicle Security Center and Tour Bus Parking Facility (VSC) began in April with the installation of the first slurry wall panel forming the foundation.

The installation operation drew onlookers as a massive crane hoisted rebar steel cages measuring some six stories tall and lowered them into a trench along West Street (Rt. 9A) between Liberty and Cedar streets.

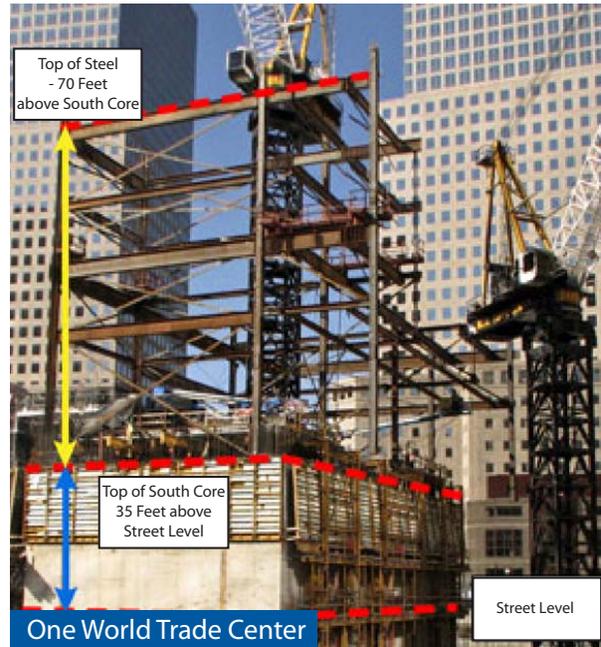


Crews install rebar cages to form slurry wall panel for VSC foundation.

A “slurry wall” is a special kind of concrete foundation wall that gets its name from the watery clay mixture known as “slurry” used in the construction process. Like the slurry wall of the original Twin Towers, the VSC slurry wall is important because it is designed to hold back the soil and rock that, in turn, holds back the water of the Hudson River. The VSC wall will extend the new “West Bathtub,” slurry wall at the World Trade Center site.

The slurry wall construction involves a carefully staged operation. First, cranes are used to excavate 60-foot-deep by 20-foot-wide trenches to the bedrock. After the trenches are created, they are filled with a slurry of water and bentonite, a clay mixture dense enough to keep out groundwater while keeping the side walls of the trenches from collapsing. Cranes are then used to lower cages of steel rebar into the trench, liquid concrete is pumped in, and the clay slurry is pumped out. The final wall consists of 3-foot-thick concrete slabs.

The VSC facility will eventually be used for the screening of buses, trucks, and cars entering the WTC site and its facilities. Importantly, during the rebuilding phase, the VSC will serve as the critical passageway for the delivery of construction material for the office towers and interiors.



## One World Trade Center Rises

The steel of One World Trade Center (The Freedom Tower) now rises more than 100 feet—some ten stories—above Vesey Street as construction progresses on what will be New York’s tallest skyscraper.

Foundation work is substantially complete and crews have poured more than 35,100 cubic yards of concrete to form the building core—more than 16.3 percent of the total concrete in the building.

Later this year, workers will begin erecting perimeter steel columns that weigh more than one ton per linear foot, with some columns weighing more than 70,000 pounds.

In addition to construction progress, in March the Port Authority of New York and New Jersey signed the first lease for One World Trade Center, with Beijing Vantone Industry Co., Ltd. The lease will create the China Center, a business and cultural facility to be located on parts of the 64th floor and the entire 65th through 69th floors.

One World Trade Center will include 2.6 million square gross feet of office space on 70 office floors, a grand public lobby with a 50-foot ceiling, an observation deck 1,265 feet above ground, a skyline restaurant, shopping and parking. The antenna tower will be 1,776 feet.

## ...More Construction News

**TRANSIT HUB** The Port Authority awarded a contract for more than 22,000 tons of steel to DCM Erectors for the Transportation Hub.

**MEMORIAL & MUSEUM** A total of 6,582 tons out of 8,650 tons of steel have been fabricated for the National September 11 Memorial and Museum and its signature pools are taking shape.

**CHILLER PLANT** Crews completed installation of four, 42-inch river water lines measuring 600 linear feet, connected to the chiller plant that will be used to cool public facilities at the World Trade Center.

# New Plan Helps Pedestrians and Commuters Navigate World Trade Center Perimeter



**Pedestrian Managers direct pedestrians**

Vesey and West Broadway; Vesey and Church; Liberty and Church. Officers may be stationed at other intersections if needed. Officials are also considering options to improve pedestrian and tourism signage around the site.

“The new pedestrian management plan was created in an effort to provide safe and friendly pedestrian routes for those who live and work near the World Trade Center construction site as work moves forward,” said Glen Guzi, program director, government and community relations.

The uniformed officers receive in-house training by Sam Schwartz Engineering that includes details of the project site, training in pedestrian, traffic and parking management strategies, and enforcement issues.

## WTC and the Community



**The Port Authority of New York and New Jersey seeks to be a good neighbor to the community who live and work around the World Trade Center construction site. Regularly-scheduled “Walkshops,” or tours of the site are offered to community stakeholders and led by traffic and planning expert Sam Schwartz, to discuss quality of life concerns including on-and-off site safety and circulation. Recent improvements around the site include:**

- Improved “no vending” signage and discussions with NYPD to discourage illegal vending and improve circulation adjacent to the site.
- Modifications to the Liberty Street shed to improve pedestrian comfort and circulation, including the installation of anti-slip floor coating; new lighting, additional signage, and plans to install new wall panels depicting area destinations.
- Removal of unnecessary construction fencing and clutter along Church Street.
- Improved lighting around the perimeter of the site in the vicinity of Church and Vesey streets.
- Communication of green/sustainable construction details via [www.wtcprogress.com](http://www.wtcprogress.com)
- Painting and maintenance of Jersey barriers in the construction zone.



**Traffic expert Sam Schwartz leads a “Walkshop”**

In anticipation of construction work at World Trade Center Tower 2, the Port Authority of New York and New Jersey conducted traffic and pedestrian route tests and launched new measures that address pedestrian safety and convenience near the site.

In April, the WTC Office of Program Logistics conducted successful pedestrian tests at the West Broadway and Vesey Street intersection near the WTC PATH station.

As part of a new pedestrian management plan, uniformed officers were stationed at the following street intersections at various times:

## In the Spotlight

**Chris Ward**



Title:  
**Executive Director,  
Port Authority**

**Q: What progress has been made to rebuild the World Trade Center site?**

A: There has been a lot of progress made to date and the World Trade Center site is humming with construction activity. As most of those who live and work in the neighborhood can see, One World Trade Center is rising nearly ten stories above ground level; the signature pools for the National September 11 Memorial and Museum have been formed; and we’ve completed construction of a key piece of the East-West Connector, the key underground pedestrian passageway that will connect the World Financial Center to the World Trade Center site and Transportation Hub.

However, much more work remains to be done, and we’ll focus each and every day on achieving the milestones we’ve set.

**Q: What is the Port Authority doing to keep the public informed about this project?**

A: We have a comprehensive plan to keep those affected by the construction project informed and to find creative ways to improve their quality of life. This newsletter is our most recent initiative. Also visit us at [www.wtcprogress.com](http://www.wtcprogress.com).

In past months, we’ve created an Office of Program Logistics, which has become the focal point for mitigating the byproducts of a massive construction site. This office has provided regular updates to residents and businesses and is the point of contact for anyone who believes we can do things better. A few of our initiatives include: the installation of a clean, informative wrapping on the WTC fence, wider sidewalks, and the installation of soundproof devices on certain types of construction equipment.

**Q: What are the Port Authority’s future plans for community interaction?**

A: Regularly scheduled Walkshops will allow community stakeholders to take walking tours of the construction site and offer an opportunity to discuss quality of life concerns.

