



**US Army Corps of Engineers**  
New York District Building Strong®

# Picking Up After Sandy...

Superstorm left  
a super mess which  
the Army Corps  
helped to  
clean up.



# The New York District Times

is a publication of the

U.S. Army Corps of Engineers

New York District



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Recyclable materials were separated from debris at Jacob Riis Park in Queens assisting the Sanitation Department to reroute metal scrap to a recycling facility

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**Submissions:** The Public Affairs Office welcomes comments and opinions about the information published in the New York District Times. News, tips, ideas, suggestions and articles may be sent to: [kenneth.wells@usace.army.mil](mailto:kenneth.wells@usace.army.mil)





# Colonel's Corner

## Teammates

With so much attention on Sandy Recovery, it's a good time to recognize and thank those that are making great contributions to our traditional Civil Works projects that have long been the main effort. As evidenced by the increased concern of citizens from Elizabeth, NJ, the Harbor Deepening project has once again started blasting away at the rock in the Arthur Kill Channel. We've also taken positive steps in the planning process with the Passaic Main Stem and Hudson River Estuary projects.

With the arrival of Spring comes the release of the President's Fiscal Year 2014 budget, including the Civil Works budget. The Corps of Engineers FY14 Civil Works budget for New York District includes over \$134 million in projects across three business lines including Navigation (\$89 million), Environmental Restoration/Remediation (\$33 million), and Flood Risk Management (\$12 million). We have a very healthy program. Combined with a robust Interagency and International Support (IIS), healthy Military Construction workload, and full spectrum Regulatory program, New York District has one of the most balanced, comprehensive programs of any District in USACE.

Our existing program, when combined with the authorizations and appropriations associated with Public Law 113-2 (Disaster Relief Appropriations Act of 2013, also known as Sandy Supplemental), means that we have a slight imbalance in workload to workforce. Workload is slightly greater than workforce. We are unique. Many Districts across USACE are facing the opposite scenario. New York District has a great track record of responsibly ramping up workforce to meet a temporary increase in workload. Harbor Branch and the BRAC 133 team are perfect examples of this. We face the same situation with Sandy. Engineering and Planning have already reached out to other Districts to provide assistance. We'll look to use excess capability in North Atlantic Division, then USACE wide, then to A&E firms, and finally to hire additional personnel on a temporary/term basis to meet the need. Overall, we estimate a need of about 135 FTE for Sandy. Much of that comes from inside the District based on people that have been and continue to work on existing coastal flood risk reduction projects. As some of you may have already experienced, we will move responsibilities for some employees over to Sandy to cover this new requirement. Finally, we think we will need to hire about 60 new positions to fill the gap of work required across the entire District Program. So, keep your eye out for positions and opportunities.

Since the last publication, two major organizational changes have occurred. First, The Harbor Branch has stood down after successfully managing the \$1.6 billion Harbor Deepening Program for the last eight years. Many thanks to Bill Slezak and team for their incredible efforts on this extremely complex process. The mission still continues as a section within the Civil Works Branch. Second, we have stood up the Sandy Recovery Branch. Anthony Ciorra is the new Branch Chief and will oversee all Coastal Flood Risk Reduction Projects associated with Sandy Recovery. We have many challenges ahead on this mission. Thanks once again for the hard work and dedication that makes New York District the best in USACE. As the warm weather begins and outdoor activities increase, please stay safe and aware of potential dangerous situations that could lead to accidents. But most of all, enjoy the Summer.

## *Essayons!*



Col. Paul E. Owen  
Commander

# *Recovery Field Office Oversees Mammoth New York Debris Removal Mission*



**By Vince Elias, Public Affairs**

**H**urricane Sandy went down in history as one of the most destructive storms on record with thousands of homes destroyed or impacted within a 1,000-mile area. The destruction of homes, piers, and trees created huge piles of timber, concrete, twisted metal and household items strewn along the shorelines of New York. Debris removal in New York amounted to 5.25 million cubic yards of debris, enough to fill the Empire State Building three times.

This punctuated a monumental clean-up effort by the U.S. Army Corps of Engineers to perform a debris removal mission to identify, remove, and haul debris from along the New York shores resulting in the establishment of the New York Recovery Field Office.

The RFO was stood up in Queens and later relocated to Manhattan with a mission of managing the mammoth debris removal mission in the State of New York, New York City's impacted boroughs, including the barrier islands of Fire Island, along the south shore of Long Island, N.Y. which proved to be the most challenging for debris removal due to its remoteness and limited access.

Assigned by FEMA to execute the Hurricane Sandy debris mission, the Corps awarded the work to Environmental Chemical Corporation International LCC with local subcontractors that performed the majority of the work.

Army Corps volunteers were recruited from various Army Corps districts and divisions to staff the RFO to aid the debris removal mission.

Lt. Col. John Knight, Commander of the Recovery Field Office has been responsible for all of the Army Corps personnel support and debris removal efforts in New York after taking the helm from Col. Trey Jordon who temporarily staffed the RFO at its inception.

Knight attributes the overall success of the debris re-

moval mission to team work.

"The RFO consisted of a variety of experts from various fields, primarily quality assurance personnel, came together and provided oversight of the contractors performing the monumental clean-up. Teams worked and collaborated with FEMA on the federal side, and worked closely with the State and the City, and specifically in this case were embedded with the New York City Office of Emergency Management and Suffolk County Office of Emergency Management. The team effort made us very successful."

Many of the volunteers have previous experience having performed in other disasters.

"One of the main reasons the mission was very successful is due to the professionalism of individuals. They came from various Districts and Divisions in other states, and are highly qualified, highly technically trained and experienced," said Knight.

At each location, debris quantities were tracked using HaulPass, an automated debris management system to track the debris landscape. HaulPass provided optimum visibility of debris through the use of hand-held electronic devices, smart-cards, and Internet for the Corps and contractor and GPS technology.



**NY District removed 800,000c/y of debris during recovery operations. Photo Vince Elias, Public Affairs**

Before crews could pick up anything off private property a signed right of entry form was required from homeowners. 1,600 properties were eligible for debris removal and the Corps contracted for the collection, load, and hauling debris.

Collecting and hauling tons of debris involved working with the state, city and homeowners. Corps crews worked with the New York City Department of Sanitation to supplement clean-up

efforts. Sanitation crews were augmented and resources were concentrated from the Rockaways using trucks and barges to transport debris at collection areas in Queens





and Staten Island, New York. Mountains of debris from neighborhoods were collected, removed and transported to temporary staging sites including from impacted sites and staging areas designated as sites for hauling debris off for disposal. Debris was comprised of trees, limbs, shrubs; household garbage and construction and demolition debris, houses and their contents; road vehicles, boats, food waste and household appliances.

The storm also produced debris from vegetation. Over 15,000 trees were downed in the city. Many trees and limbs were transported to Floyd Bennett Field, Brooklyn and chipped.

Coordination with local, state and other federal agencies was also accomplished to minimize disturbance to the ecosystem. In partnership with the City of New York, the Corps converted tree debris into reusable material including biofuel, mulch and landfill cover.

Wood planks and concrete was removed at the Rockaways caused by the storm surge which moved parts of the beach and houses onto streets at Rockaway Beach along with a boardwalk that was destroyed. Recyclable materials were separated from debris at Jacob Riis Park in Queens assisting the Sanitation Department to reroute metal scrap to a recycling facility. Debris was transported by long-haul trucks or by barge to landfills in upstate New York and Pennsylvania.

A temporary storage site at Jacob Riis Park was established for trucks to unload debris. Sand was transported from Riis Park where excavators with hydraulic jack hammers broke apart large chunks of concrete and front end loaders used for the concrete crushers. A parking lot at Field 5 at Robert Moses State Park, Long Island was also used as a temporary staging area for debris collected from Fire Island which expedited the removal efforts.

At Floyd Bennett Field, Brooklyn, the Corps burned or chipped about 135,000 cubic yards of tree limbs and large tree trunks. At Jacob Riis Park debris was collected from areas in Brooklyn and Queens. The Corps went through Breezy Point, Rockaways, Staten Island and Fire Island, on foot where appliances, demolition debris and ruined household goods were carted off.

Residents and visitors access Fire Island primarily by ferry. A remote barrier island, Fire Island has limited vehicle access and travel is mostly limited to small boardwalks or sand pathways, and driving on the beach required access several communities. The Corps worked street by street and removed debris using dump trucks, front-end loaders and crawler excavators. Approximately 2,200 structures on Fire Island were damaged by the storm and an estimated 62,000 cubic yards of storm debris was moved from the right of way and private property.

The mission shifted into high gear at Fire Island in March with 24-7 operations in full swing to expedite the removal process and meet the clean up goal. Approximately 2180 Tons of construction and demolition (C&D) and 438 Tons of debris passed through Field 5 at Robert Moses State Park alone.

The final piles of debris that were collected from Fire Island and removed from Robert Moses State Park in late March just in time for the piping plover bird nesting on island beaches.

Results are also evident and at Midland Beach, a neighborhood on Staten Island's east shore was free of the piles of debris previously staged at Father Cappodanno Beach.

"We still have a number of things to complete at the Temporary Storage site at Jacob Riis Park at the Jamaica Bay Unit of the Gateway National Recreation Area in Queens," said Allen Roos, Deputy of Recovery Field Office. "We're continuing to grind concrete. The activity continues and there is still some material that is being collected, and having to be repackaged for long haul transportation for disposal," said Roos. "We're still dealing with some other material such as boardwalk and sand, and materials for salvage capabilities, including the restoration of the area used at Riis Park – an effort will take us through the end of May 2013."

After months of having crews working 24-7, on long shifts, the team began the process of ending the cleanup effort. The overall debris removal mission in New York is winding down with great strides and milestones accomplished from a very talented team of volunteers who spent several months and long hours in support of the Sandy Debris Recovery Mission.

The operation is scheduled to wrap up by the end of April.

The cleanup was described by a citizen as a "textbook case of how to get a job done."

**The Corps debris mission collected & disposed of various types of debris including refrigerators and tree stumps,  
Photo: Vince Elias, Public Affairs**



# Developing Leadership Skills from Within

By Sital Bhakta, Engineering

The topic of leadership has gained vast interest within many organizations over the last couple of decades where large amounts of money and time have been expended in learning about and developing effective leaders. The U.S. Army Corps of Engineers, New York District, has followed suit and has been developing leaders for several years through Headquarter's Emerging Leaders Program (HQ ELP), New York District's Leadership Development Program (NAN LDP) and North Atlantic Division's Executive Leadership Development Program (NAD ELDP).

The programs vary in intensity and among other things, offer flexibility, exposure and challenge. Employees in grades 9 through 14 are given the opportunity to develop their leadership skills through both traditional and non-traditional learning methods.

The one year curriculum typically consists of reading requirements, writing assignments, oral presentations, shadowing experiences, mentoring, coaching, developmental assignments, and individual project development.

All three programs offer great flexibility by allowing participants to gear the curriculum to their particular interests within the organization. For example, individuals have the option to select which Division they would like to perform their developmental assignments with and also choose who they would like to shadow. Additionally, participants have the scope to implement their own project ideas for the betterment of the organization.

"These programs are designed

to give participants a greater understanding of the district's mission, what we do and the role we play within the region", according to Debra Smith, NAN Human Resources Specialist and co-developer/administrator of the leadership development programs. This is done by exposing participants to senior leaders, who have decision making authority and who are currently leading the region and district missions, enabling participants to learn by example. Many former NAN LDP participants have highlighted this same point as being a key advantage to the program, including Mark Jurcic, an architect in NAN Engineering Division, who stated, "Understanding the roles of each division and getting a bigger picture of what NAN is about and where we fit in was one of the most important things I learned after completing the 2012 LDP."

Structured to challenge participants in extrospective and introspective ways, these programs stretch individuals out of their comfort zones by engaging them in different activities they typically would not encounter. "When I went through the program, there were some personal challenges; I had to learn about myself. The 2008 NAD ELDP helped me discover my strengths and weaknesses. Then I focused on my weaknesses to become a better leader," said Paul Tumminello, NAN Chief of Civil Works Program.

In addition, par-

*"Leaders are not born; they are grown"*  
- Peter Drucker

ticipants learn how to improve their prioritization and time management skills. According to Stephan Ryba, NAN Eastern Section Chief of Regulatory Branch, "Balancing work loads with the demands of the LDP was challenging. I learned from the challenges of working on the multiple goals of meeting my Project Manager responsibilities while keeping up with the demands of the 2012 LDP." Considering the leadership program tasks have to be completed along with each individual's existing job duties, some participants choose to work program components beyond their normal working hours.

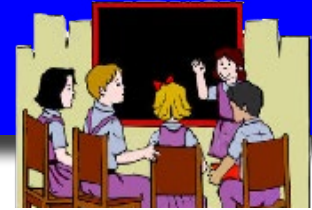
The competitive leadership programs leave the employees with practical skills and tools to strengthen and accomplish the mission, enhance their career and professional growth within USACE.

For more information contact Paul Tumminello, Debra Smith or Anthony Schiano.

Mark Jurcic, Jun Yan, Col. Paul Owen and Stephen Ryba.



# Inspiring Our Children



By JoAnne Castagna, Public Affairs

“My dad worked on that!” a child said enthusiastically as New York District Commander Col. Paul Owen explained to a roomful of children the important missions their parents are working on in the aftermath of Hurricane Sandy. Owen was kicking off the District’s annual “Bring Your Child to Work Day – Inspiring the next generation towards STEM” (Science, Technology, Engineering and Math).

“The goal of this program is to show young girls and boys the work their parents are performing at the Army Corps and how it helps the public and possibly inspire them to pursue careers in science, technology, engineering and mathematics,” said Jean Lau, equal employment opportunity office (EEO) specialist and STEM outreach coordinator, U.S. Army Corps of Engineers, New York District.

The program included taking the twenty six children, ages 6-15, through a variety of hands-on engaging activities organized by employees.

The first exercise - “Office of Counsel Jeopardy” - was presented by Ellen Simon, assistant District counsel and Wes Miller, assistant district counsel. They created a “Jeopardy-like” game that included questions about the federal government. The children were divided into teams and each team selected questions to answer.

The second exercise - “Tower Building Contest” - was presented by Nathanael “Nate” Wales, civil engineer, Planning Division. In this activity the students were divided into teams and they built towers out of straw, Popsicle sticks and tape. The goal was to build the tallest tower that can withstand wind forces provided by a fan. Wales said, “I was impressed by the energy and creativity of all of the children who participated. I too had a lot of fun!”

The third exercise - “Real Estate Appraisals” - was presented by Timothy Hogan, lead appraiser, Real Estate Division, whose two children attended the program. Hogan distributed pictures to the children that showed them the different types of buildings our agency appraises, some of which they knew very well, including Disney World and the Empire State Building.

The last exercise - “Beach Building Contest” - was presented by Peter Kuglstatter, civil engineer, Operations Division. Kuglstatter created a game where the children learned how to fill in a barrier island that was breached due to a hurricane. They were divided into teams that represented each part of the project from dredging to piping the sand onto the beach.

Kevin Meranda, resident engineer and team leader brought his 7-year-old daughter to the event. “It’s a great opportunity for the children to experience some of what their parents do every day. It also provides members of the Army Corps an opportunity to see the faces of the most important people in our lives. This was a great experience for me and my daughter and we are looking forward to next year.”

The Equal Employment Opportunity Office holds STEM events throughout the year and they need volunteers – If interested, stop by their office!

Our next STEM event is on June 6th with NYC DoE. If you are interested in volunteering please contact Estelle Capowski, STEM PM or stop by the EEO office.

**Children participate in a construction exercise during District-sponsored “Bring your child to work day” .  
Photo by JoAnne Castagna, Public Affairs**





# Army Corps Civilian Builds Up Wounded Warriors With Sled Hockey Program



By JoAnne Castagna, Public Affairs

Last year, Mark McKenna, a project engineer with the Fort Drum Field Office of the U.S. Army Corps of Engineers, New York District was working out at the gym at Fort Drum in Watertown, N.Y.

"I was working out in the gym and a Soldier in a wheelchair came in and then turned around and left the gym. I asked the manager what do they do for the disabled, because they cannot reach the pull up bar nor the dumbbells. She told me that they had nothing organized for them."

McKenna felt that more could be done for these Wounded Warriors. Since he is a major hockey fan and has been a volunteer hockey coach for over 30 years, he came up with the idea of forming a sled hockey team at Fort Drum for these disabled Soldiers. He had learned through his research that sled hockey is an adaptive sport for the disabled to play ice hockey.

He and a team of volunteers quickly went to work to form a team, find equipment and train them up.

Recently, the "Mountain Sled Warriors (Wounded Warrior Unit - WTU)" held their first sled hockey tournament with great success. The donation-only fundraiser benefits Fort Drum's Warrior in Transition Unit at Fort Drum, sled teams from Albany, Syracuse, Ottawa and the U.S. Army's Wounded Warrior Project.

"These tournaments are a great way to help the Soldiers get back in touch with their community and for the com-

munity to thank them for their service for our country," said McKenna.

"During the tournament the Wounded Warriors forgot about their disability and learned a new sport or found out that they can still play hockey in a different way. Also they had fun doing some team building. They all had smiles on their faces; it was like they were kids again."

McKenna is supported by the Society of American Military Engineers (SAME) Fort Drum Chapter, Canton Veterans of Foreign Wars (VFW) Post 1231, the Knights of Columbus, as well as many businesses, universities and pro hockey stars that donated their money and equipment, such as sleds and specially designed hockey bags and jerseys.



Playing hockey in a different way, "Mountain Sled Warriors" are seen enjoying their first sled hockey tournament. Photo by Lenny Photography.

The tournament took place at the SUNY Canton's Roos House rink. The WTU team was composed of 24 male and female Soldiers that played a round-robin tournament with other Wounded Warrior teams from Albany, N.Y. ("Capitol District Warriors"), Syracuse, N.Y. ("CNY Flyers") and Ottawa ("Ottawa Valley Falcons").

The games began with the national anthems for Canada and the U.S. and color guard marches from the VFW-Post 1231 and Clarkson University's Reserve Officer Training Corps. The games ended with a party and special dinner, raffle, silent auction and the awarding of medals and trophies.

The Wounded Warriors benefit from the tournament in multiple ways:



# Wounded Warriors Sled Hockey

## Strengthens Soldier bond

WTU team player Staff Sergeant, Matthew Butler said, "The best part of playing for me was seeing all the Soldiers having fun together and working as a team." Butler was injured while on an air assault mission in Iraq of 2007.

"The camaraderie between hockey fans and players is unlike any other sport. Playing with Wounded Warriors takes this one step further, we are brothers in arms and brothers on the ice," said Sergeant, Elijah Haslage, a WTU goalie.

## Strengthens body

Haslage said, "I like this event because it gives those who love hockey but can't play anymore the chance to get back on the ice, no matter the disability."

"Sled hockey also brings a whole new challenge to the game of hockey for someone like me that has played hockey," said Butler. "Even though the rules and fundamentals are the same, being in a sled gives that feeling of learning and being challenged as though you have never played hockey before. In other words, I found myself learning a whole new skill set but still playing the game I love, hockey!"

WTU team player Staff Sergeant, Wautash Grillett said, "It was exhilarating to be that combative in a sporting event from feeling as frail as I had been since being injured." Grillett spent nine and half months at Walter Reed Army Medical Center after a leg injury in Afghanistan.

## Builds Confidence

Wautash said, "It gives individuals the ability to be part of a full contact sport that builds their self confidence and

provides them a sense of accomplishment in the game. It's truly a no loser sport."

## Provides a distraction

"I think it is a good distraction for a lot of Warriors that have a lot on their plates; they have the looming transition out of the Army, painful conditions, and numerous doctors' appointments. It is good to forget for the few hours you are on the ice," said Haslage.

Butler said, "Soldiers who at one time were training to kick in doors and then deployed and had to face the reality behind those doors to protect and serve a country they love,

are now returning with limitations. Anything that makes them forget about those limitations for a few moments and builds cohesion as a team once again with a common goal or interest (and love every minute of it) is what these

Soldiers need!" He continued, "It truly is a blessing to know that the

"North Country" of upstate, New York not only cares about our Soldiers, as we have always known, but really goes out of their way to make a difference in these Soldiers lives at such a crucial time for many."

McKenna said, "The event would not have been possible without the overwhelming support and generous donations from the entire community. Donations from this recent tournament will help us purchase new equipment including 30 sleds."

McKenna added, "These tournaments have shown me that Wounded Warriors can do anything they put their minds to. They just need an opportunity. These guys and gals put their lives on the line for us. The Army Corps builds buildings and facilities for them. This event brings us together."



Soldiers having fun together and working as a team learning whole new skills but still playing the game. Photo by Lenny Photography.

# *Army Corps Helps Support the Army Family through School Construction*

By JoAnne Castagna, Public Affairs



**I**n 1821 the U.S. Military Academy at West Point in New York established the first school on a military installation to serve the children of service members. Almost two centuries later, the West Point community and Department of Defense continue to be committed to providing these children an education to take them into the 21st century, even in the current tough fiscal times.

This is being demonstrated with the much needed renovation of the historic West Point Middle School being completed by the U.S. Army Corps of Engineers, New York District. The school educates 300 students in grades five through eight and was in need of major upgrading.

In 2011, Army Corps contractor Benard Associates of Wayne N.J. began the renovation of the school. The project includes renovating the existing school that was built in 1934 , which was designated a landmark, demolishing a wing to the school that was built in 1954

and constructing a new approximately 31,000 square foot addition.

The more modern 62,000 square foot educational facility will include new state-of-the-art general purpose, art, science and music classrooms that will have interactive smart boards and wireless Internet access. This includes a new digital arts lab and clay workroom in the art classrooms and a new acoustic band room, as well as a full digital video production studio. In addition, the school will have an improved cafeteria, playground, restrooms, library, parking area and handicapped access, as well as a new central air system, security system and fire protection and communication intercom system.

The new structure will meet the environmental requirements to be certified LEED Silver by the U.S. Green Buildings Council. The school will qualify because it will have energy-efficient doors and windows; additional windows to make use of natural light; energy efficient hot water heating and chilled water cooling systems; upgraded insulation; water conserving toilets; and motion detector faucets.

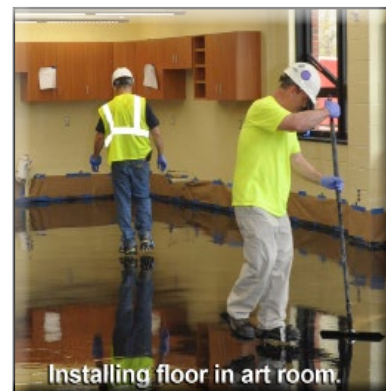
The West Point campus is filled with historic buildings, including the 80-year-old middle school. "To maintain the historic look and feel of the campus we did a few things," said Larry Danner, project engineer and contracting office representative, U.S. Army Corps of Engineers, New York District.

"In the new renovated 1934 building we made sure that the new brick and precast bands and caps matched the existing building colors; we incorporated the original wood floors into the new main office spaces; and we used the original 1934 library shelving in the parent waiting area of the new main office."

David Rudy, Principal of the West Point Middle School said, "The students are going to benefit greatly by this renovation. They will have access to learning spaces that are safe, modern, and efficient and they will have a setting in which 21st century curricular objectives may be pursued. This project is also a testament to the military's commitment to provide world-class educational opportunities for the children of the men and women serving in our nation's military."

The project is being performed in phases and successfully while classes are in session and is expected to be completed in 2014. Rudy said, "Recently, the Army Corps held a tour of the school for the parents and staff members. Several parents commented on the quality of the work, and the attention to detail that went into its outfitting. They also noted how well the exterior of the addition matched with the existing 1934 structure. Very happy community!"

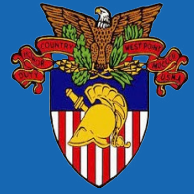
Photos by Dan Desmet Public Affairs





# *Preparing West Point Cadets for combat*

By JoAnne Castagna, Public Affairs



"When our Soldiers are performing combat operations in villages and cities in Iraq and Afghanistan with complicated terrain, such as Baghdad and Fallujah, they're in areas that are familiar to the enemy, but not to them," said Retired First Sergeant, Alec Lazore, range operations officer at the U.S. Military Academy at West Point, N.Y. "Training our Soldiers to maneuver in this unknown environment is important for them to sustain the fight, defeat the enemy and for their own survival."



Lazore knows this from personal experience having fought in Afghanistan and Iraq.

It's because of this that Lazore supports the construction of West Point's first Urban Assault Course by the U.S. Army Corps of Engineers, New York District. Army Corps contractor Doyle Contracting of Pearl River, N.Y., is performing the work.

An Urban Assault Course is a series of training stations designed to increase the knowledge of combat in an urban environment. The cadets will work through stations on the course, which show the different urban settings they may encounter in combat. The course trains Soldiers, squads and platoons on tasks necessary to operate within a built-up urban area.

West Point's Urban Assault Course will cover

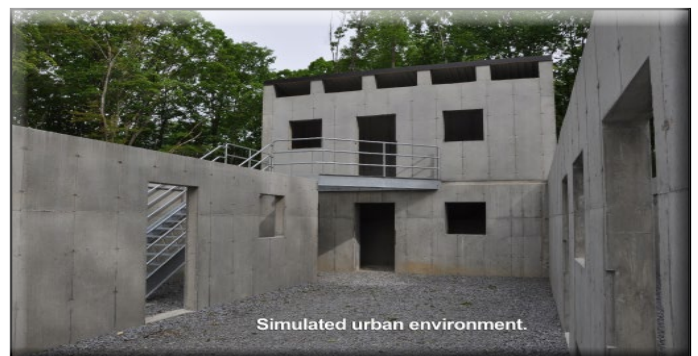


over 11 acres of property and include five stations that are interconnected by roadways. The stations will include simple wood structures to simulate buildings, a large scale firing range, an underground tunnel system, an ammunition breakdown pad and support facilities.

Tim Pillsworth, project engineer, U.S. Army Corps of Engineers, New York District said, "The Urban Assault Course is beneficial for the Soldiers because it is training them to fight like they are fighting right now. They are fighting in an urban environment with tight roadways and buildings that they're defending and attacking. It makes it as real world as you can get."

Construction of the Urban Assault Course will be completed this summer - six months ahead of schedule – making the complex available to Soldiers for use for summer training.

Photos by Dan Desmet Public Affairs





# Moving Forward with Sand Replenishment

The U.S. Army Corps of Engineers is in the process of placing roughly 27 million cubic yards of sand along the coastline throughout the northeastern United States to restore coastal storm risk reduction projects previously built by the Corps that suffered severe impacts because of Hurricane Sandy. The bulk of the sand, roughly 24 million cubic yards, will be placed in New York and New Jersey, but sand will also be used to restore previously constructed projects in Delaware, Maryland, and New England.

The work, some of which has already started, will be done through several contracts with sand for placement being dredged from different sources, including navigation channels and offshore borrow areas. The entire near-term coastal restoration effort is expected to total roughly \$650 million. This cost will be 100 percent federally funded.

Through the Flood Control and Coastal Emergencies Act, PL 84-99, the Corps is authorized to repair previously constructed projects after a large event like Hurricane Sandy. This pre-existing authority allows the Corps to return storm-damaged project to pre-storm conditions, which in the case of coastal projects often means replacing sand lost during a major storm.

Through the Disaster Relief Appropriations Act of 2013 (the Sandy Relief Bill, or PL 113-2), the Corps is authorized to restore previously constructed projects impacted by Hurricane Sandy to their original design profile, which often means placing more sand. The Disaster Relief Appropriations Act of 2013 also augmented the funds used for PL 84-99 work, thus providing funds necessary for both repair and restoration work at Sandy-impacted coastal storm risk reduction projects.

The work will be carried out by Districts throughout the North Atlantic Division, with New York District managing the work.



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