# AREA 21 SOIL REMOVAL

## PHOTO TOUR
## GREAT NECK REMEDIATION

1111 Marcus Avenue

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Project Lead

LOCKHEED MARTIN

# AREA 21 SOIL REMOVAL PROJECT

- A fact sheet describing this and earlier soil removal projects is available at:
  - https://lockheedmartin.com/content/dam/lockheed-martin/eo/documents/remediation/great-neck/soil-factsheet-fall-2020.pdf
- Lockheed Martin excavated soil to remove non-hazardous contaminated soil remaining from historical industrial operations at the direction of New York State Department of Environmental Conservation (NYSDEC).
- This was the seventh and final planned soil removal project.

Excavations occurred between September 14, 2020 and December 4, 2020, with site restoration occurring through January 18, 2021. A total of 3,980 tons of soil were removed from the site.

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**Fact Sheet: Upcoming Soil Excavation at 1111 Marcus Avenue, Great Neck, NY**

Summer/Fall 2020

Lockheed Martin will be excavating soil at the 1111 Marcus Avenue property to remove non-hazardous contaminated soil remaining from industrial operations. Based on extensive sampling performed previously by Lockheed Martin, the soils were determined to contain contaminants at levels below the classification of hazardous waste but above the New York State Department of Environmental Conservation's (NYSDEC) Soil Cleanup Objectives for a commercial facility. NYSDEC developed the Soil Cleanup Objectives to help protect public health, groundwater, and ecological resources.

Six earlier excavations were completed between 2017 and 2019. The seventh, and final, excavation is the largest excavation with fieldwork scheduled to begin in September 2020. The seventh excavation area is approximately 160 feet by 160 feet with depths ranging from 2.5 to 11.5 feet deep. The amount of material to be removed is estimated to be 2,600 cubic yards. Vehicular traffic and pedestrian access will be maintained during all the excavation work. Lockheed Martin will provide notice of upcoming activity, including specific plans regarding traffic control to the owners of the Marcus Avenue property for communication to their tenants and customers.

The excavation area will be surrounded by temporary fencing to keep the public safely away from open work areas. After the contaminated soil has been removed from the excavation, the hole will remain open and protected by construction fencing and signage while soil samples taken at the bottom of the hole are tested to confirm that all the non-hazardous material has been removed. Once confirmed, the hole will be backfilled with clean soil from a facility approved by NYSDEC. After backfilling, the surface will be restored to its previous condition, e.g., asphalt, concrete, or landscaping. The fieldwork is anticipated to take 6 to 8 weeks due to the large amount of soil to be removed.

The excavation work site is located immediately adjacent to the LA Fitness building. The excavation limits include the driveway on the south side of the building and a portion of the parking lot and adjacent grassy area. Several parking spaces will be temporarily unavailable during this excavation work. Traffic will be rerouted as necessary during construction.

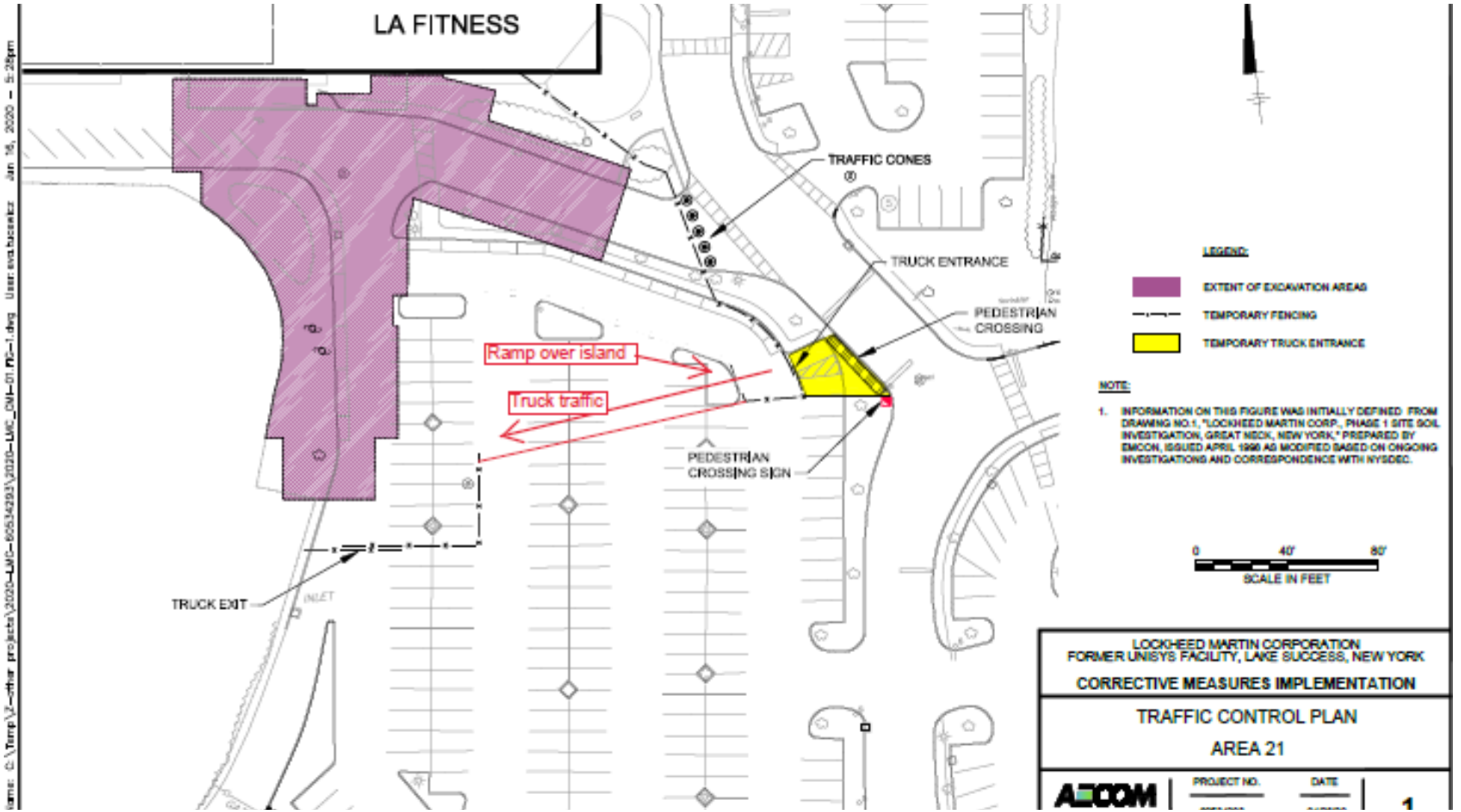
During the excavation work, Lockheed Martin will be implementing a Community Air Monitoring Program approved by NYSDEC. The work area perimeter will be monitored to ensure the safety of the downwind community.

Lockheed Martin anticipates removing a total of about 2,600 cubic yards of contaminated soil, or approximately 200 truck loads. The same number of trucks of clean backfill will be coming in. Truck loads will be covered and the truck tires will be cleaned before leaving the work area. The majority of the excavated soil will be disposed of at an out-of-state landfill approved to accept non-hazardous soil. The contaminants in the soil have been identified as copper, in trace amounts, and polycyclic aromatic hydrocarbons (PAHs). PAHs are created when products such as coal, oil, gas, and garbage are burned, but the burning is incomplete. They can be found naturally in the environment. PAHs persist in the environment and do not readily break down and are common in urban areas. Asphalt paving is a common source of PAHs[1].

More information about Lockheed Martin's work locally is available at www.lockheedmartin.com/greatneck, including a project Fact Sheet.

[1] https://pubs.usgs.gov/fs/2005/3147

# AREA 21 IS LOCATED ADJACENT TO LA FITNESS




Pedestrian and local traffic access was maintained and precautions were in place to keep them safe from truck/project vehicle traffic.

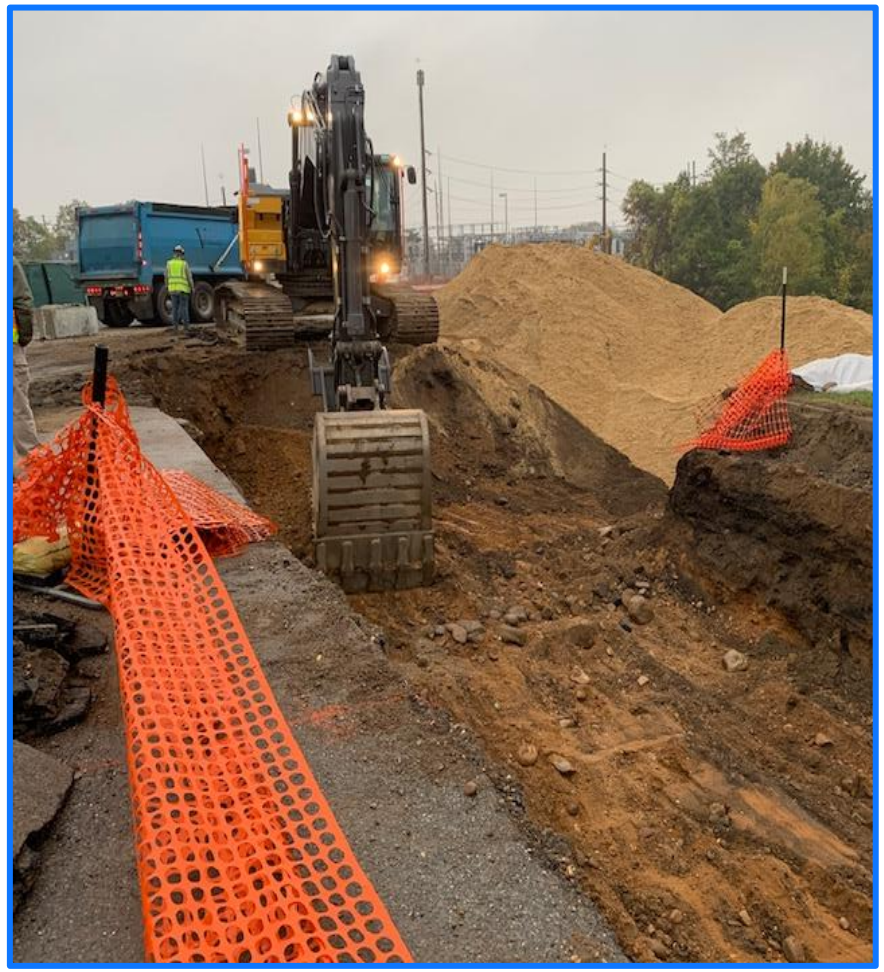
The project completed with no safety incidents.

# WORK BEGAN IN SEPTEMBER 2020

Site preparations began, including setting up erosion controls, removing one tree, removing asphalt and concrete, and screening for radiation in exposed soils.

# EXCAVATION BEGAN

Excavations were done one area at a time, and trucks were loaded within the fenced work area.



# NEARBY FEATURES WERE PROTECTED

Excavations occurred near a storm water retaining pond and the LA Fitness building.

# SCREENING FOR RADIATION PROTECTION

Health physics technicians screened for radiation throughout the excavation work, screening soil, equipment, and all materials before leaving the site for disposal.

No radiation concerns were identified during the project work.

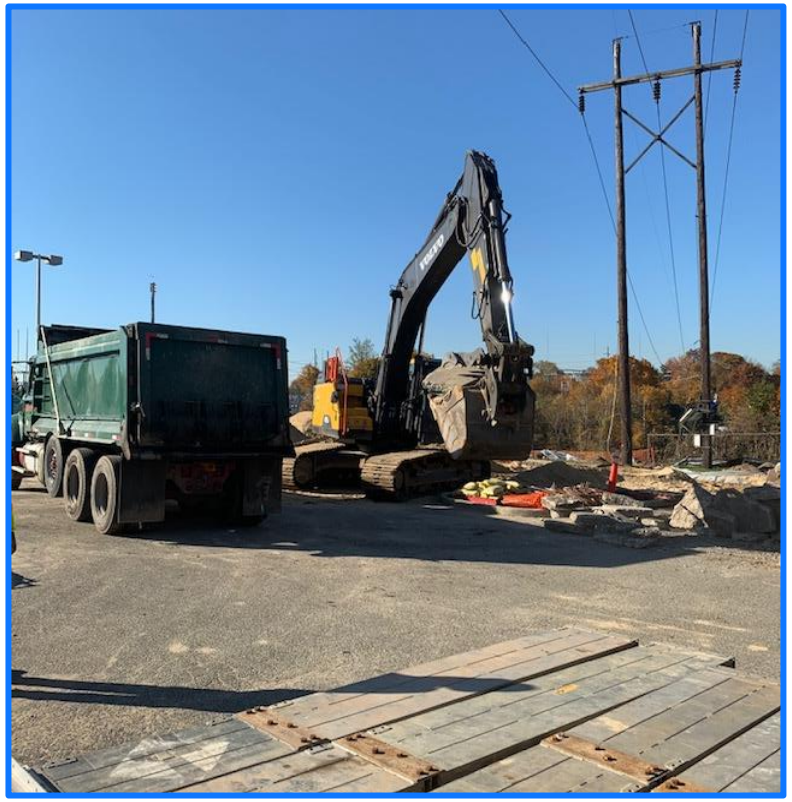
# ADDITIONAL SAFETY & PROTECTION MEASURES

Deeper excavation areas required trench boxes to support sides for worker and project safety.


Vibration monitoring measured any potential to disturb nearby buildings or occupants.

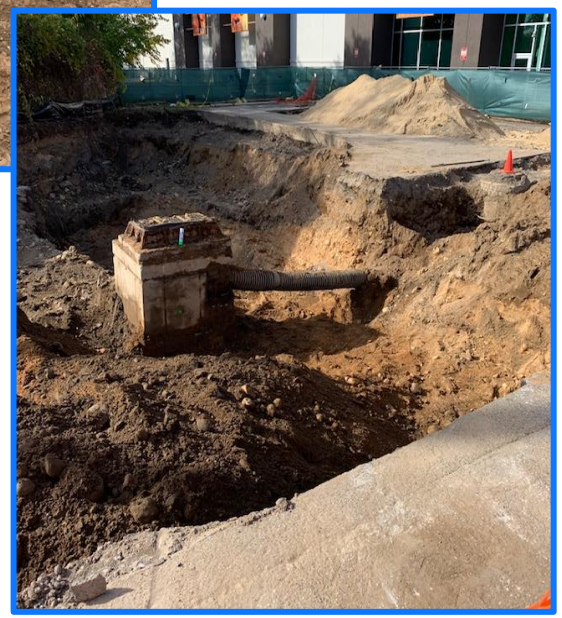
# RECYCLING WHERE POSSIBLE

Asphalt and concrete was removed and segregated, then recycled.

# PROTECTING UNDERGROUND INFRASTRUCTURE

Digging was protective of buried utilities including a catch basin, sewer pipe, and manhole, as well as a utility pole. A support clamp was used to stabilize the pole during excavation activities.



# BACKFILLING AND COMPACTING

Survey poles are used to measure the depth of an excavation area, confirming planned work was completed.

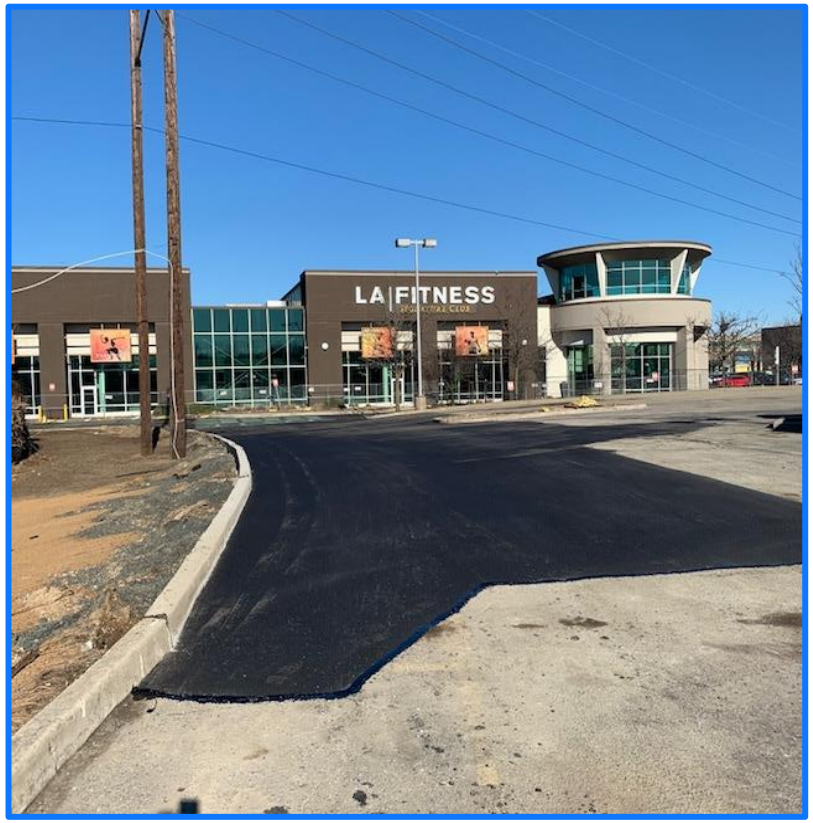
Excavation areas were backfilled with clean soil, compacted, and tested for compact density


# COMPLETING RESTORATION OF EXCAVATIONS AREAS

Crushed stone was brought in, spread, and compacted in areas to be returned to fresh asphalt.

# FINAL STEPS

The last stage of work included laying asphalt and installing new curbing and sidewalks.

# FACT SHEETS

Community fact sheets on a variety of topics are made available at:

www.lockheedmartin.com/greatneck and include:

- Project Overview
  - Updated Spring 2019
- Groundwater
  - Summer 2020
- Soil Vapor/Indoor Air
  - Updated Summer 2020
- Soil Excavation
  - Updated Summer/Fall 2020
- Sentinel Well Installation
  - Project Completed


ALL FACT SHEETS PUBLISHED TO LOCKHEED MARTIN WEBSITE

# THANK YOU FOR YOUR INTEREST

For questions or concerns, please contact:

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