



**Battery Park
City Authority**

Battery Park City Resiliency Projects

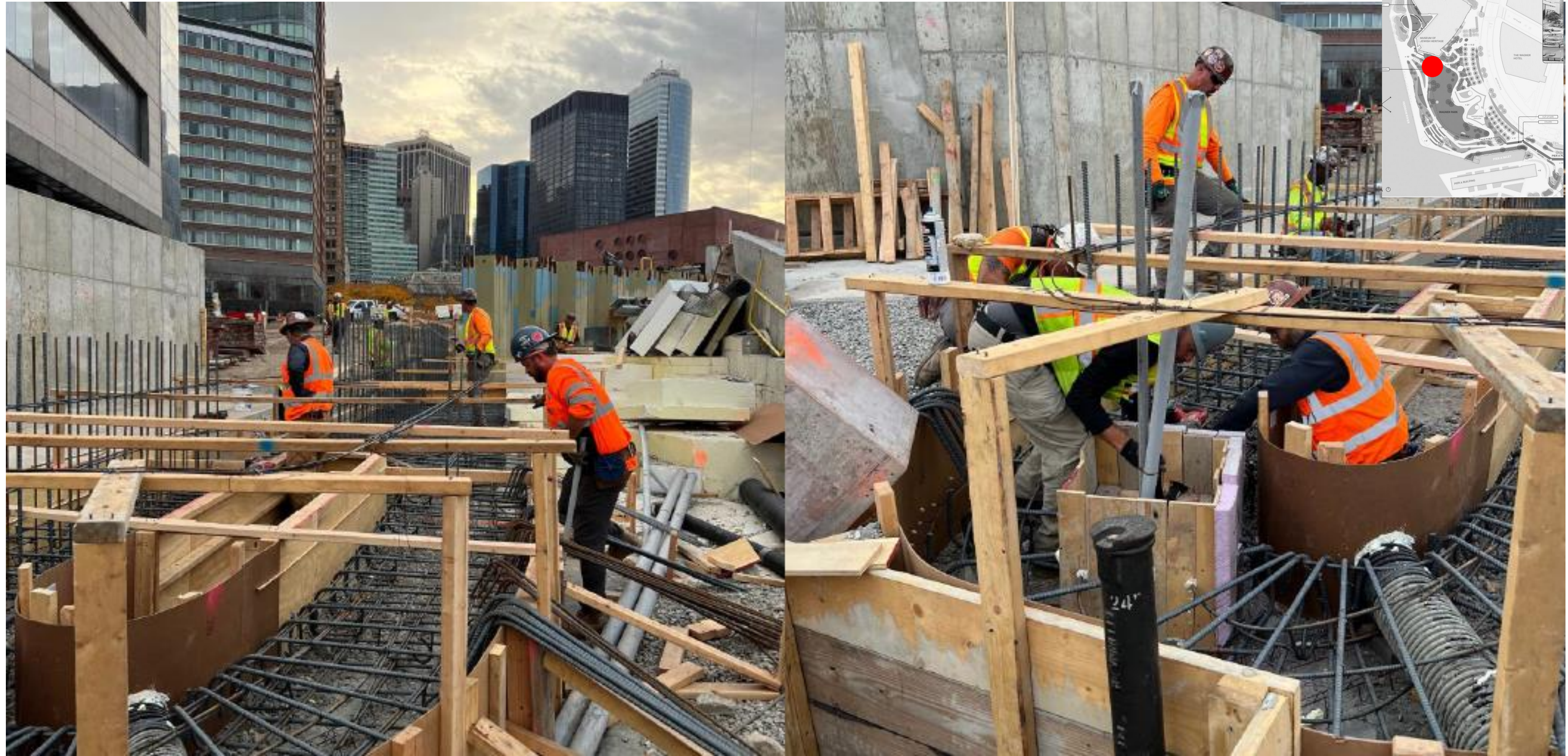


LMCR Quarterly Update- Revised

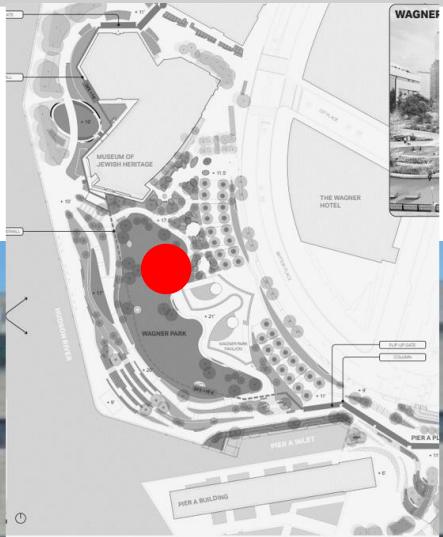
NOVEMBER 22, 2024

South Battery Park City Resiliency Project Construction Progress

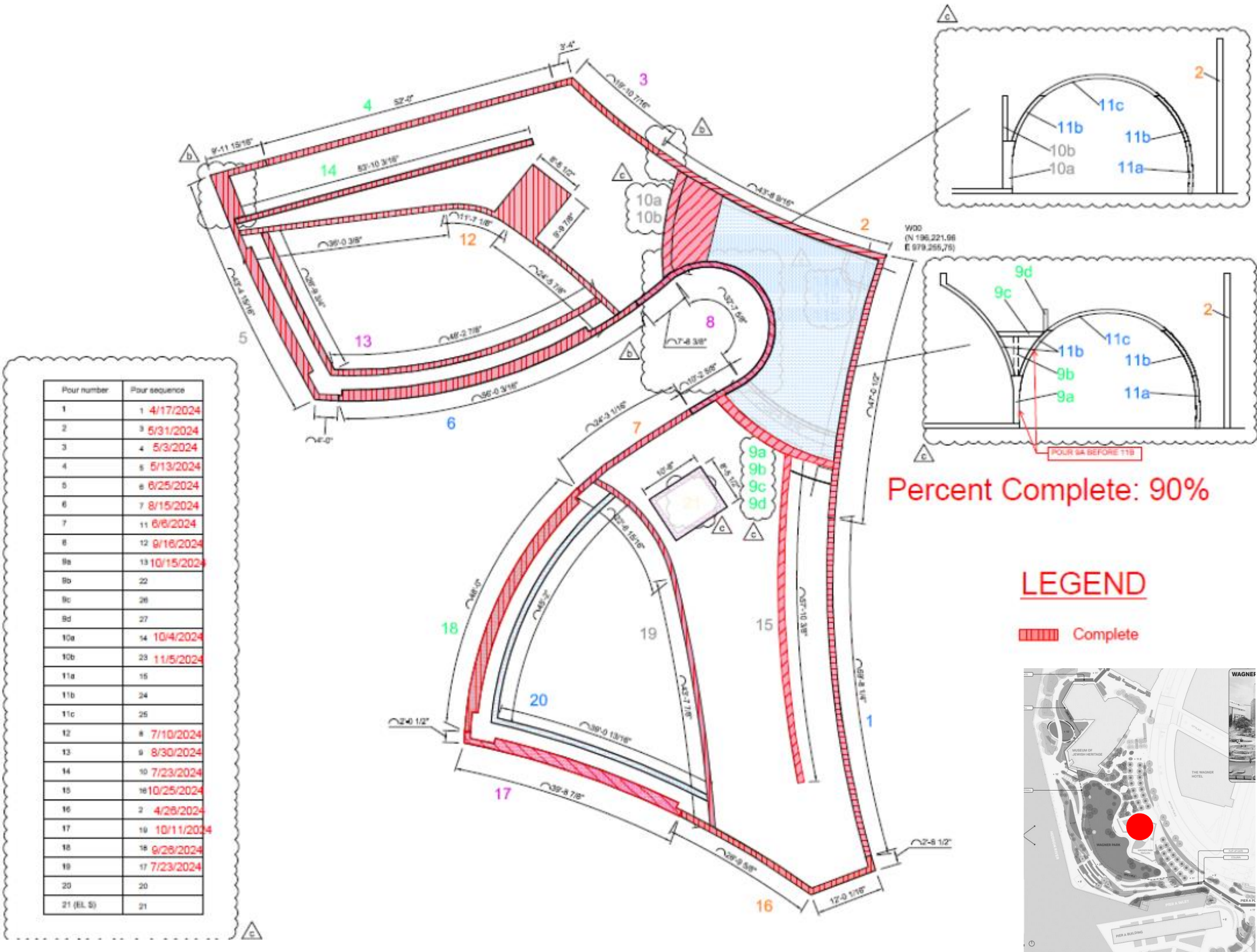
Wall and Footing Concrete South of MJH in Progress



Site Electrical Work at Wagner Park Progress



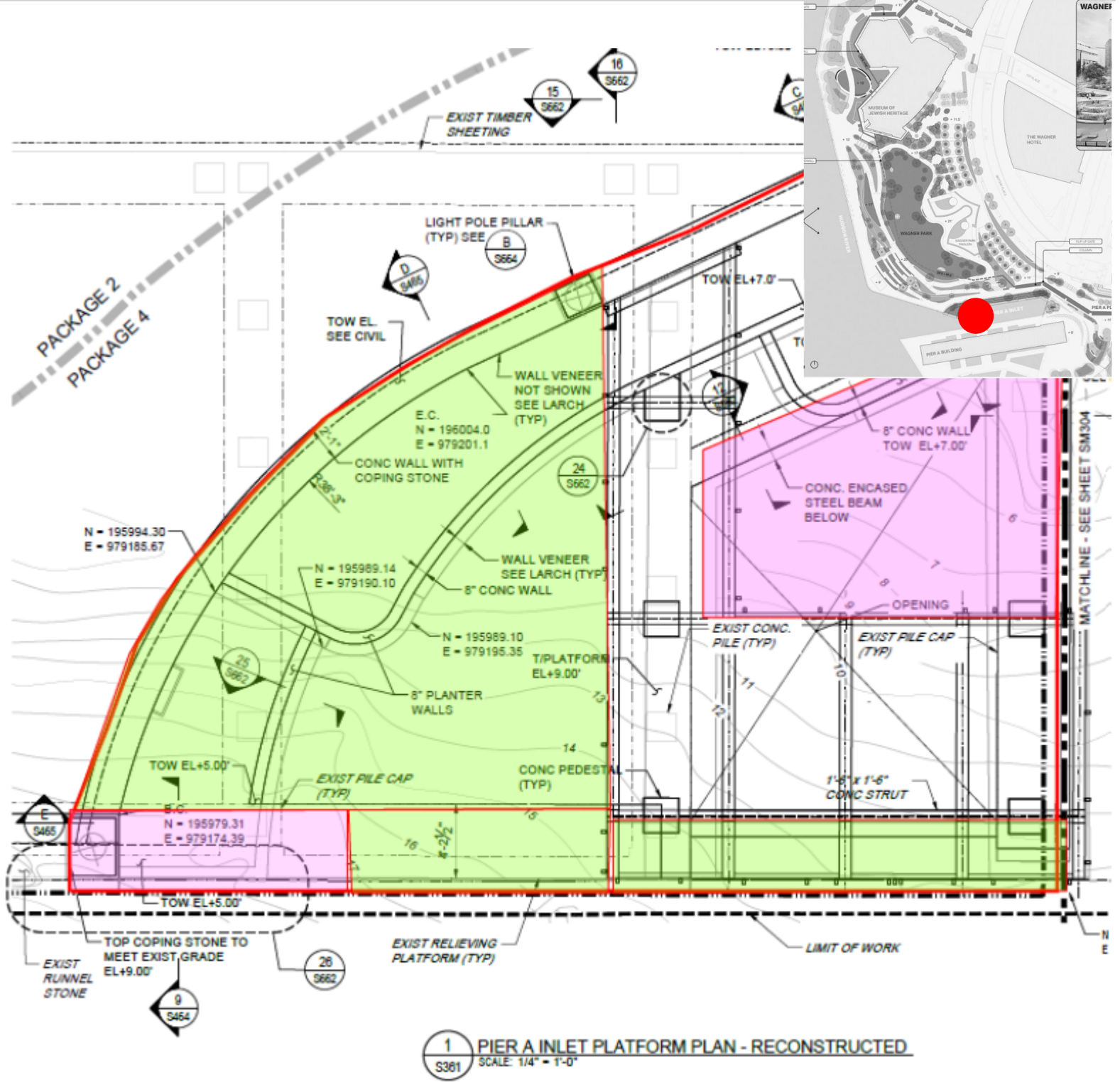
Pavilion Concrete Installation Progress



South Site Wall Foundation Formwork Progress



Pier A Inlet Deck Progress



- Pier A Inlet Demo remaining 20%
- Pier A Deck Reconstruction completed 60%

Pile Cap and Stud Welding Progress



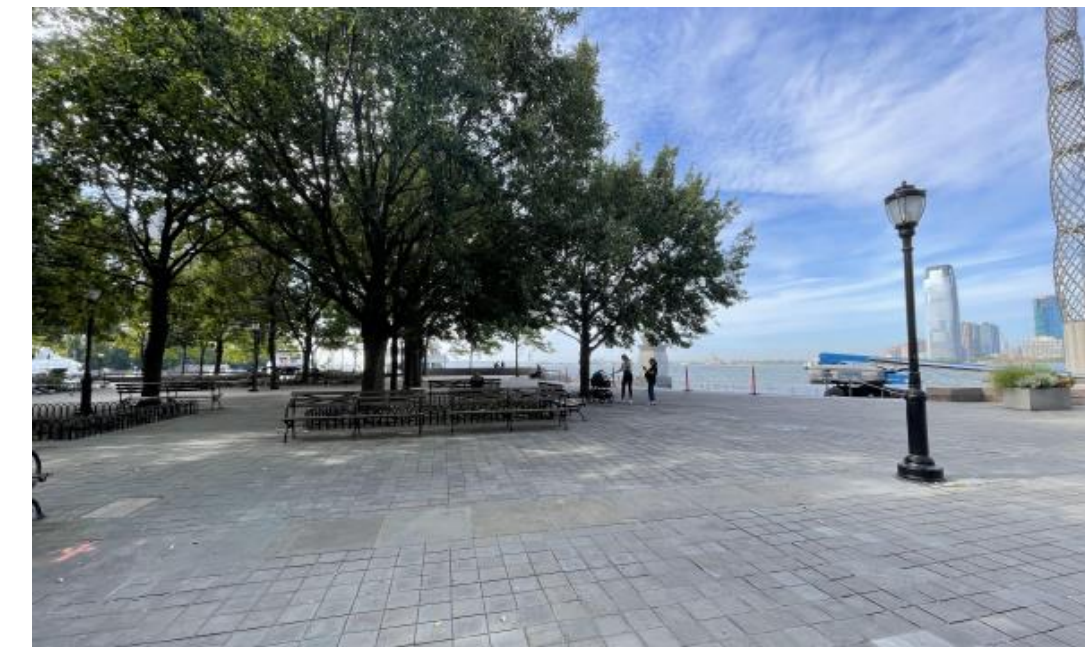
PILE SCHEDULE		PILE SCHEDULE		PILE SCHEDULE		PILE SCHEDULE	
U/L	EASTING	PILE NUMBER	NORTHING	PILE NUMBER	NORTHING	PILE NUMBER	NORTHING
56	979439.18	34A	195985.48	41A	195993.33	47A	195990.66
90	979433.85	34B	195975.32	41B	195988.84	47B	195982.82
70	979447.05	35A	195985.48	41C	195984.34	48A	195990.77
05	979441.73	35B	195975.32	41D	195978.84	48B	195982.98
52	979452.21	36A	195985.48	42A	195993.46	49A	195990.25
86	979446.88	36B	195975.32	42B	195988.96	49B	195983.19
22	979462.43	37A	195985.48	42C	195984.46	50A	195987.00
56	979457.10	37B	195975.32	42D	195978.97	50B	195981.66
32	979472.64	38A	195985.48	43A	195993.59	51A	195981.33
26	979467.31	38B	195975.32	43B	195989.09	51B	195977.78

20% pile cap excavation has been completed

North/West Battery Park City Resiliency Project Test Pile Program

Justification for Work

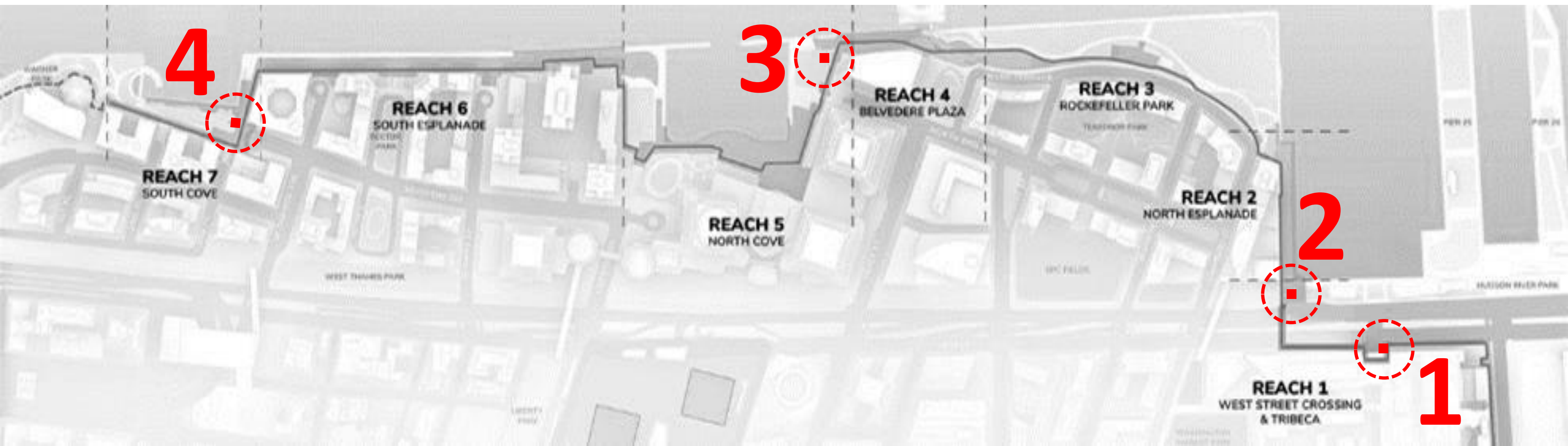
- **Confirmation of geotechnical and engineering assumptions** for lateral and load-bearing capacity
- Opportunity to **analyze quarry stone** underneath and behind the existing relieving platforms;
- Confirmation of **pile installation procedures** and **identification of potential constructability issues**
- Confirmation that micropiles and drilled shafts **meet the required standards** and **achieve site-specific performance**
- Early **identification of potential problems**, if any, reducing the risk of delays and failures during construction.
- Opportunity to **adjust and/or optimize design** based on findings. **Potential for cost savings and schedule improvements** associated with pile spacing and length optimization.



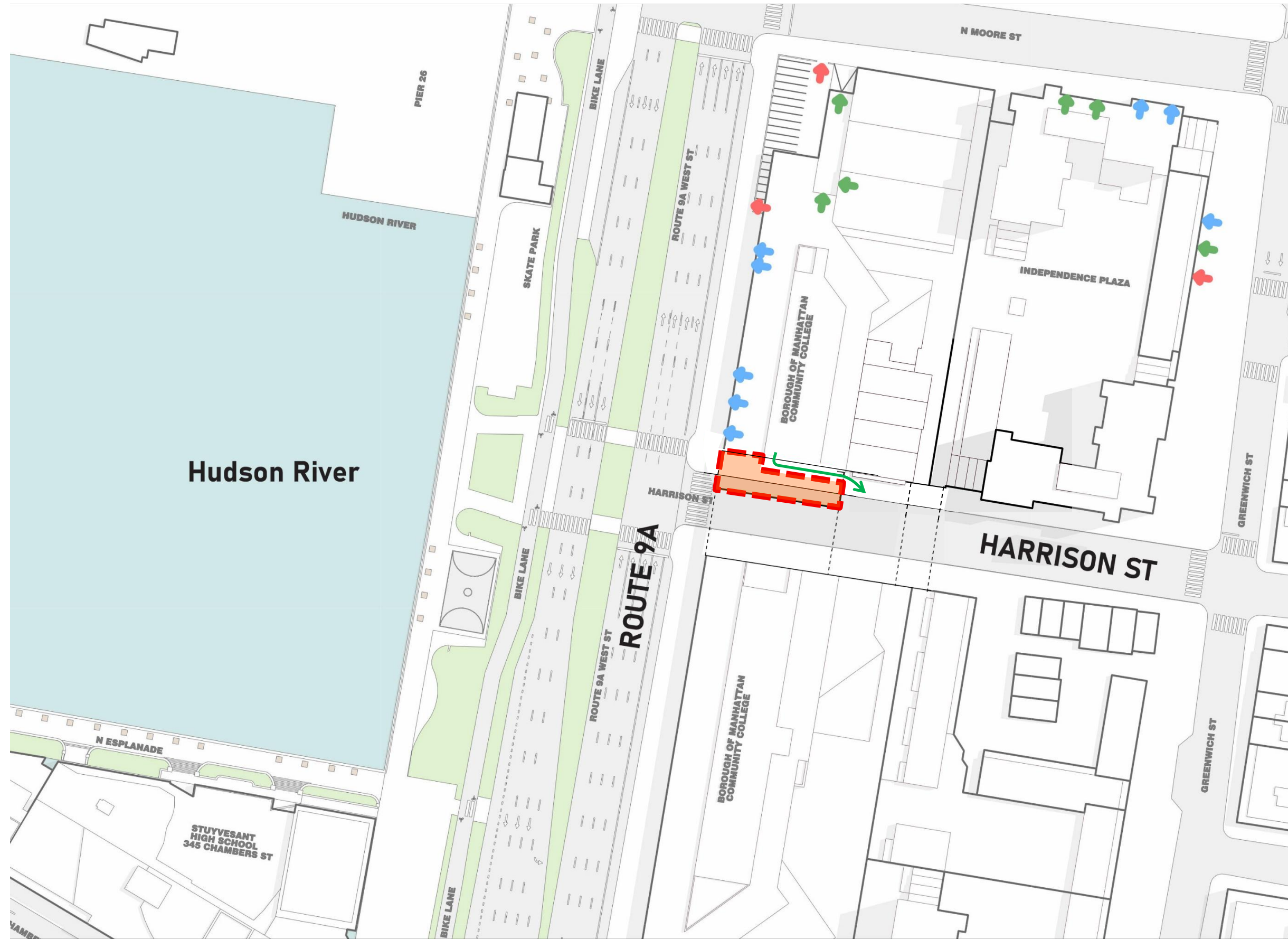
Test Pile Locations

Drilling Durations:

- Reach 1 (2 locations): Ten 13" micropiles ~1 week
 - Reach 5: Two 36" drilled shafts ~2 weeks
 - Reach 7: Five 13" micropiles ~1 week
- Each of the locations will be protected with **construction fencing, noise blankets, silt fence and catch basin protection**
 - **Vibration, survey, noise and air monitoring** will be performed at each location



Test Pit Locations- Reach 1/ Route 9A (Location 1)



Schedule

Test Pit for Pile Locations:
November 20-21

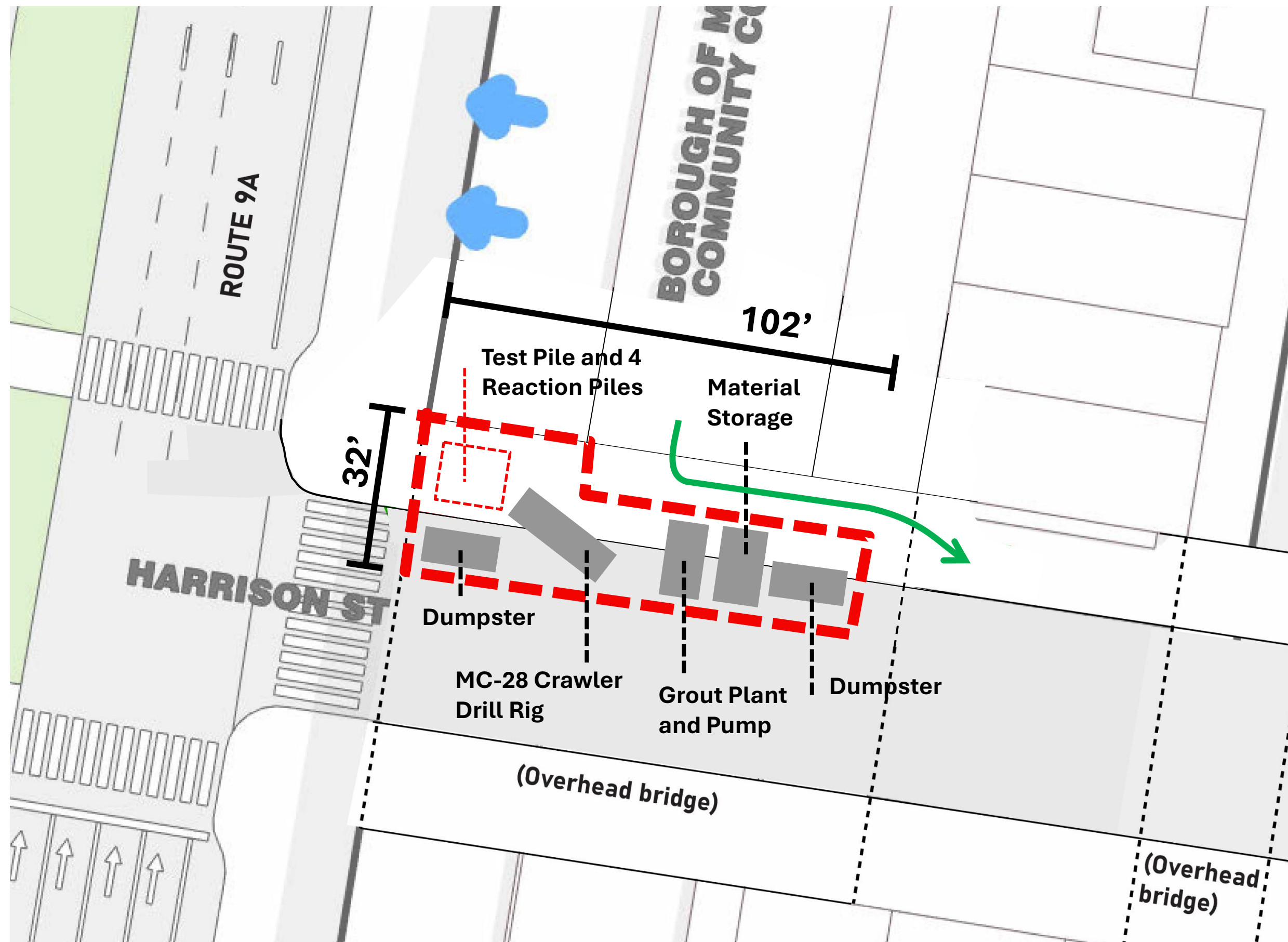
**Mobilization to set up Full
Work Zone:** November 25-
December 4

Micropile drilling: December
5-13

Curing and Testing:
December 16- January 10

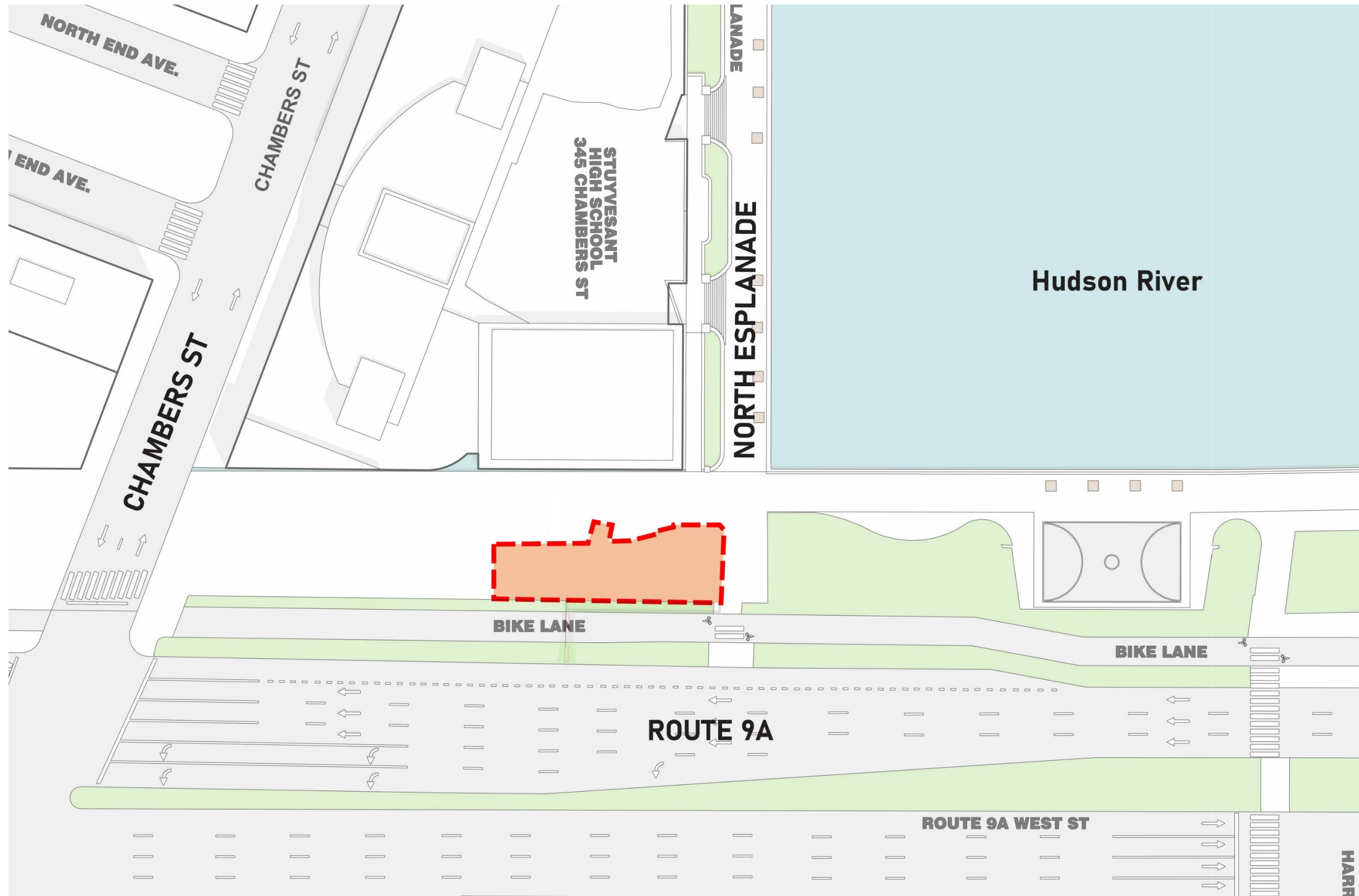
Restoration of Site: January
13-17

Test Pile Locations- Reach 1/ Route 9A (Location 1)



- Limits of work encroach partially on the parking lane
- Pedestrian traffic is moved across Harrison Street. BMCC emergency egress is preserved
- Pile Work performed:
 - Mini-piles (4 reaction piles and 1 test pile)
 - 13" in diameter each
 - Approximately 80-90 feet deep

Test Pit Locations- Reach 1/ Route 9A (Location 2)



Schedule

Test Pit for Pile Locations:
November 21-27

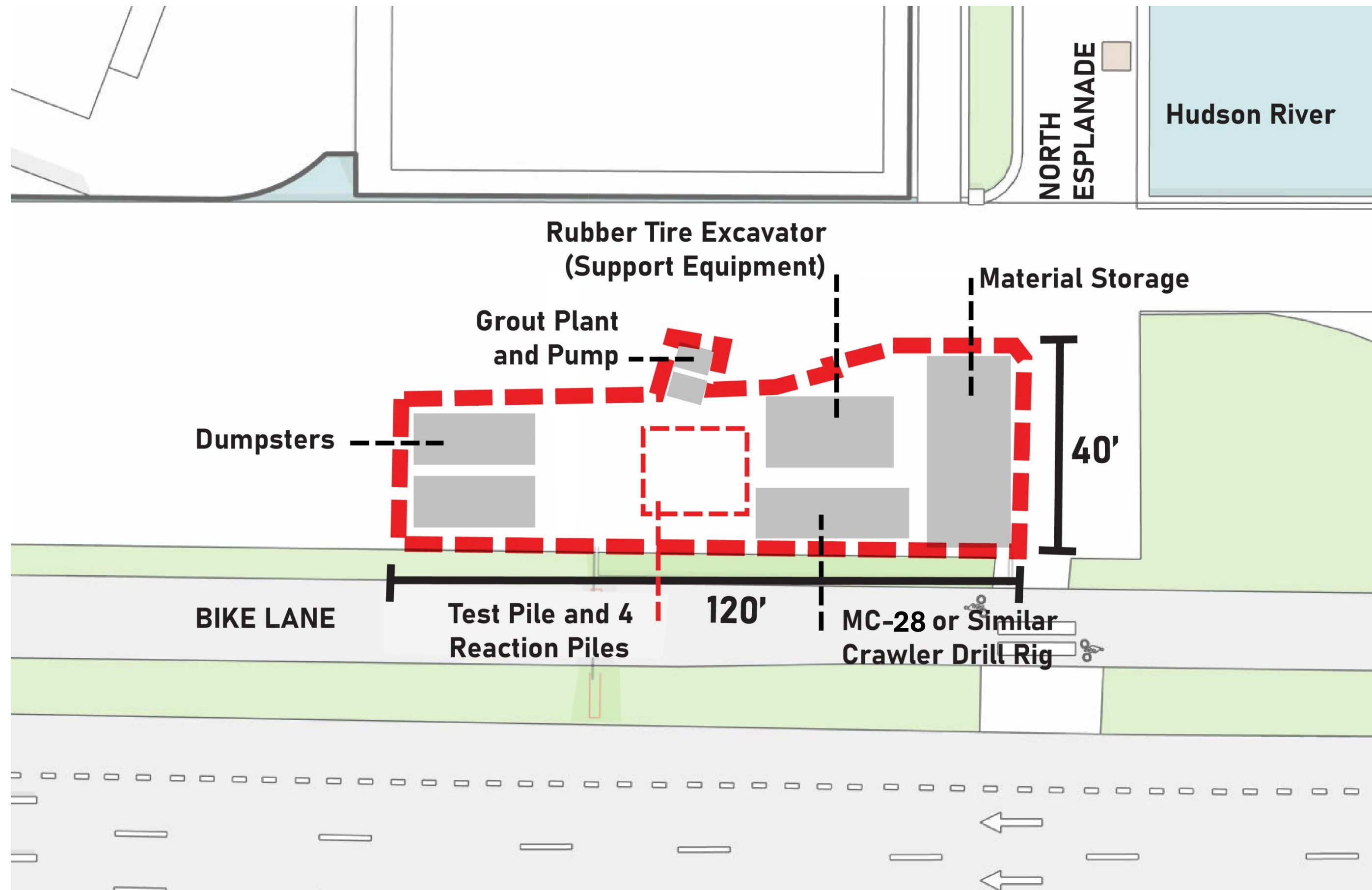
**Mobilization to set up Full
Work Zone:** December 2-11

Micropile drilling: December
12-20

Curing and Testing:
December 23- January 17

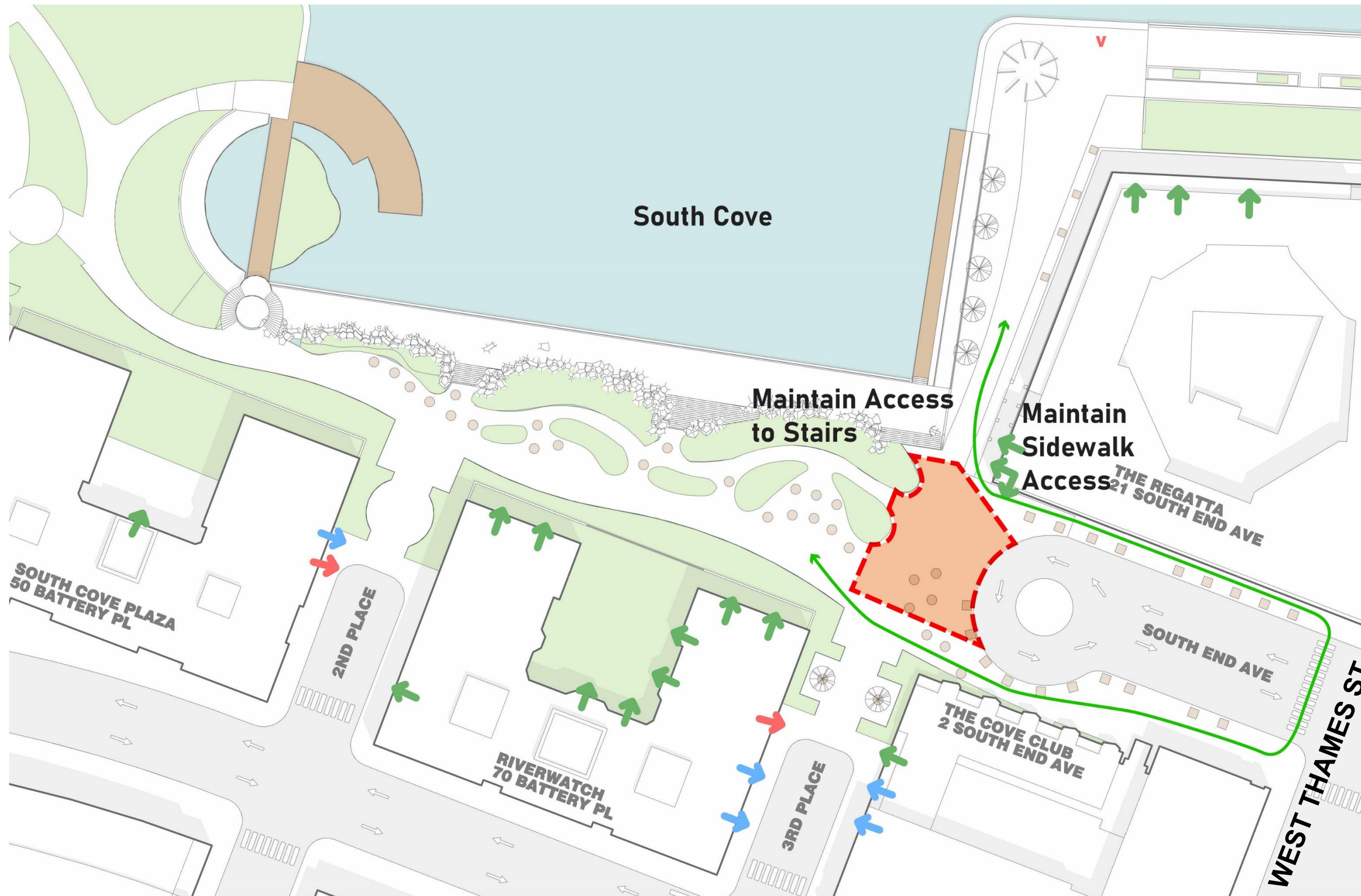
Restoration of Site: January
20-24

Test Pile Locations- Reach 1/ Route 9A (Location 2)



- Pedestrian traffic is unaffected
- Pile Work performed:
 - Mini-piles (4 reaction piles and 1 test pile)
 - 13" in diameter each
 - Approximately 80-90 feet deep

Test Pile Locations- Reach 7/ South Cove (Location 4)



Schedule

Test Pit for Pile Locations:
December 2-10

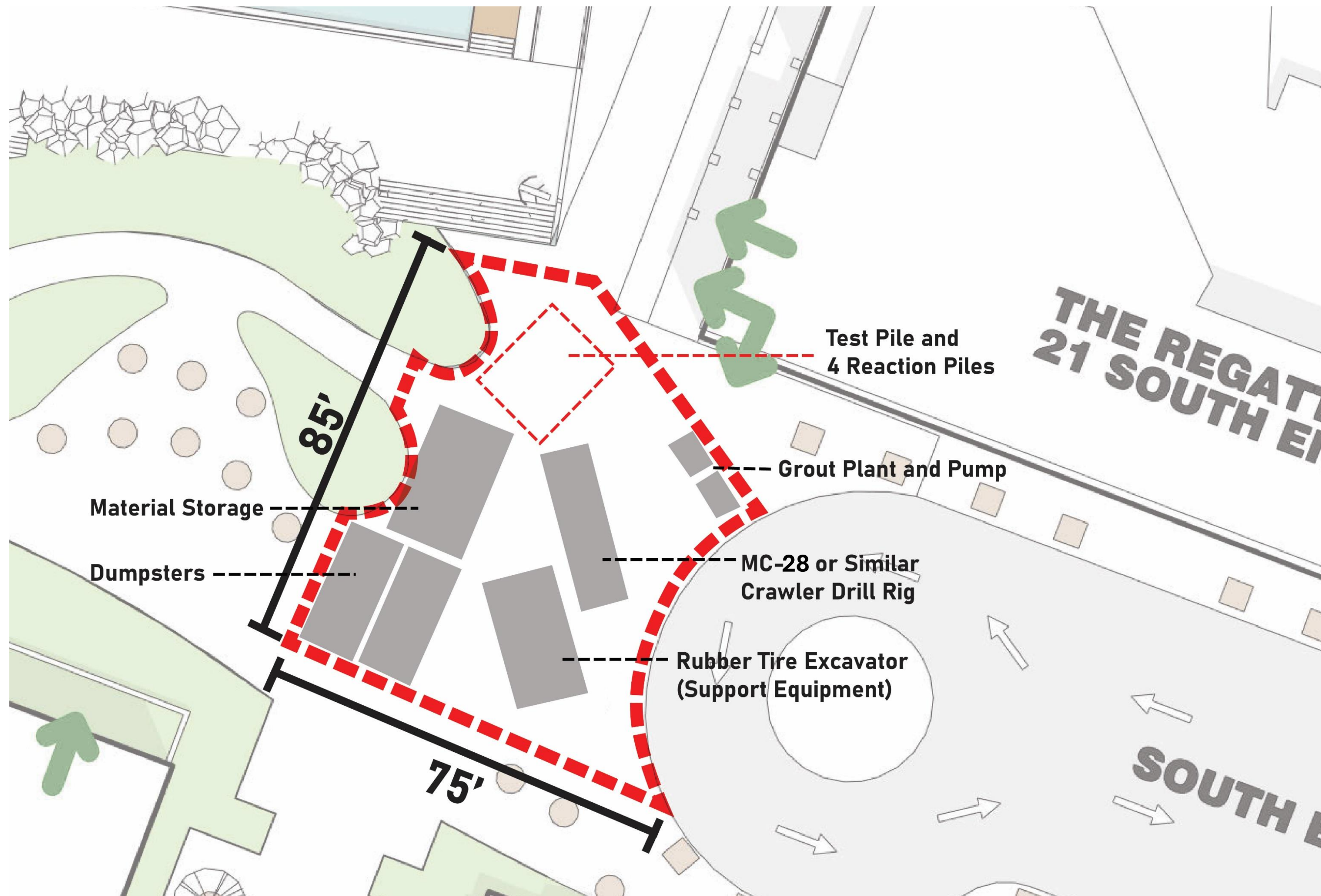
**Mobilization to set up Full
Work Zone:** December 11-20

Micropile drilling: December
23-31

Curing and Testing:
January 1- January 31

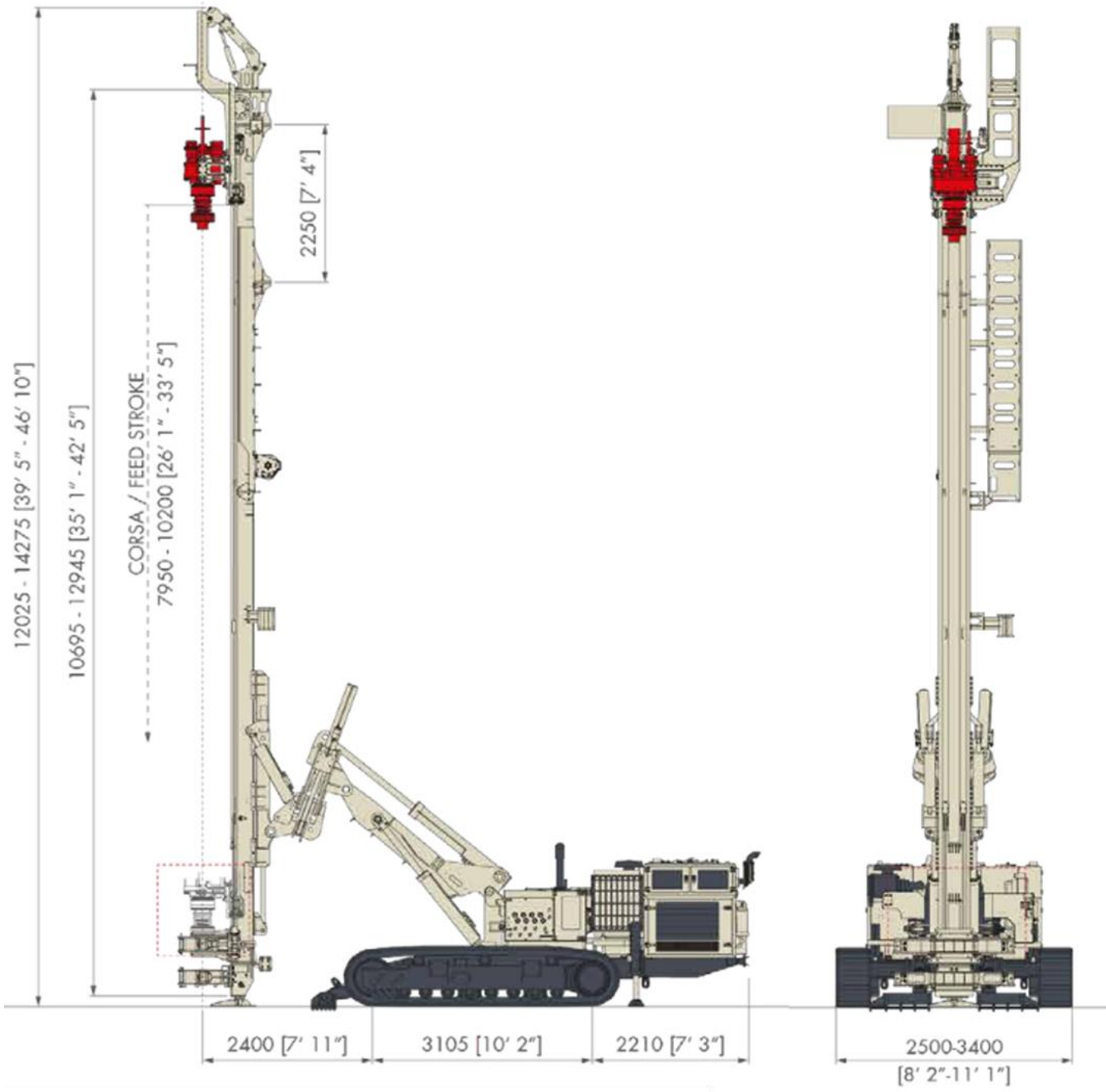
Restoration of Site: February
3-7

Test Pile Locations- Reach 7/ South Cove (Location 4)

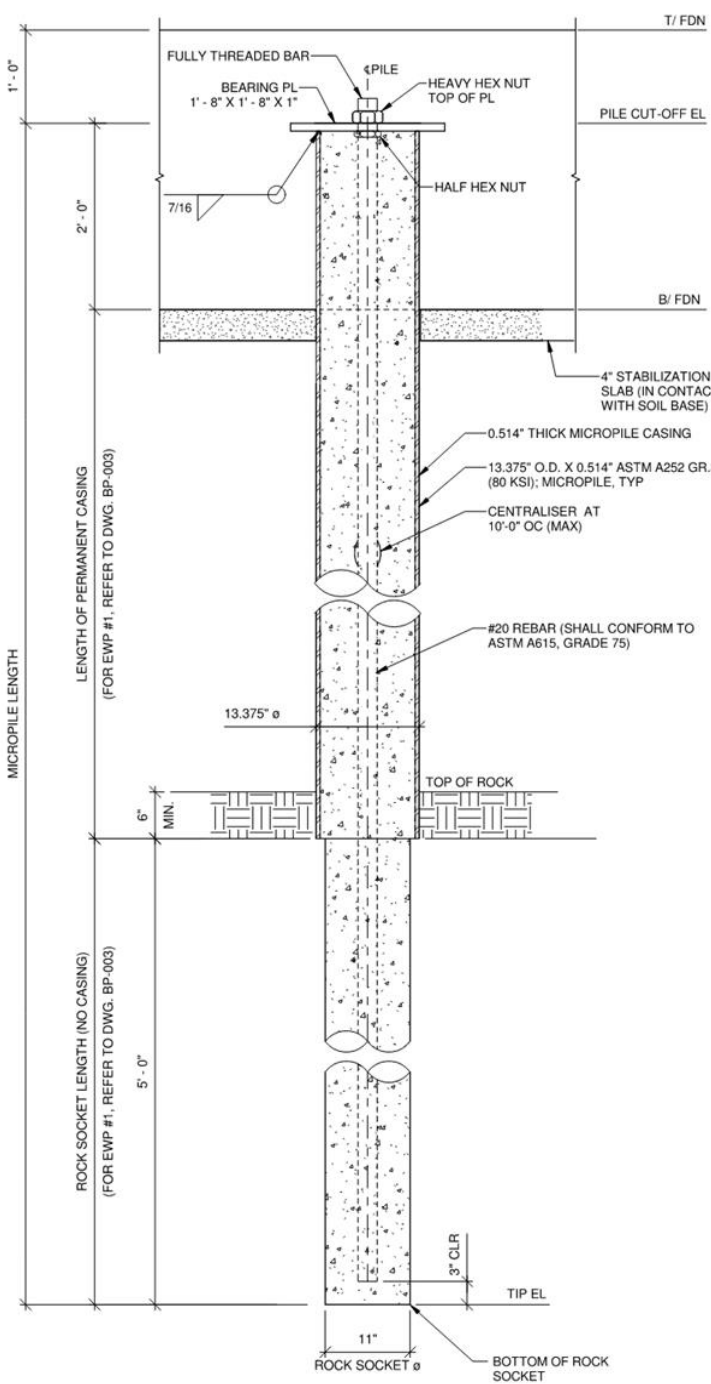


- Pedestrian traffic is rerouted to West Thames (see previous slide)
- Pile Work performed:
 - Mini-piles (4 reaction piles and 1 test pile)
 - 13" in diameter each
 - Approximately 75 feet deep

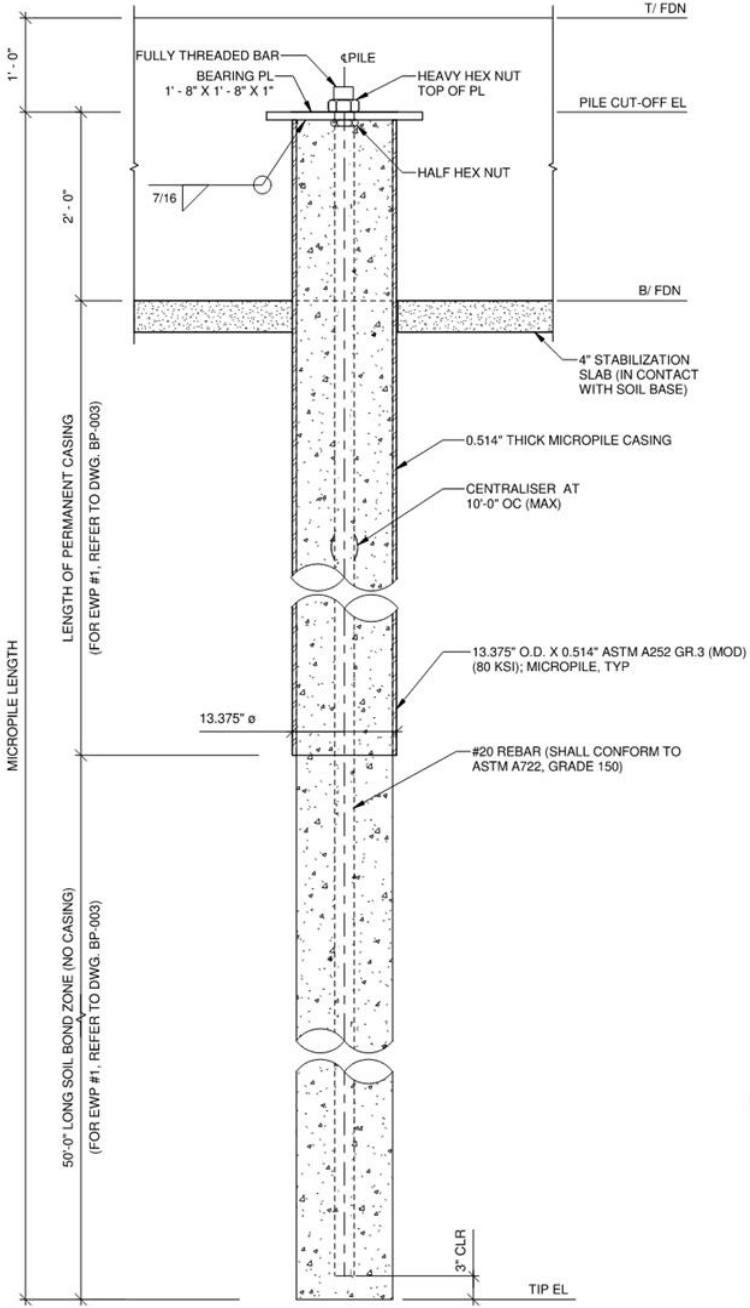
Micropile Installation- 13"



MC-28 HYDRAULIC CRAWLER DRILL
NOT TO SCALE



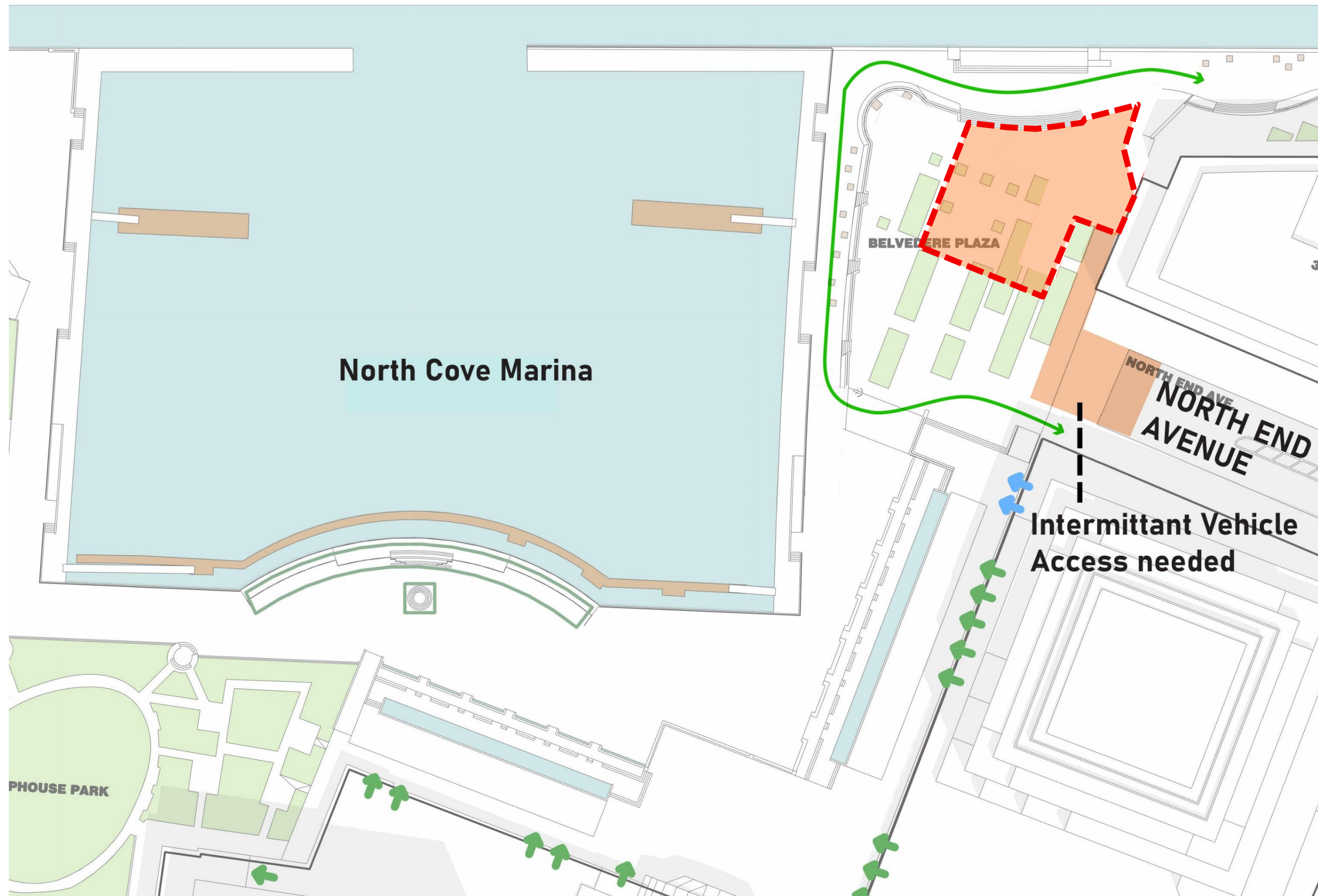
MICROPILE WITH ROCK SOCKET DETAIL



MICROPILE WITH SOIL BOND DETAIL



Test Pile Locations- Reach 5/ Belvedere Plaza (Location 3)



Schedule

Test Pit for Pile Locations:
November 25-27

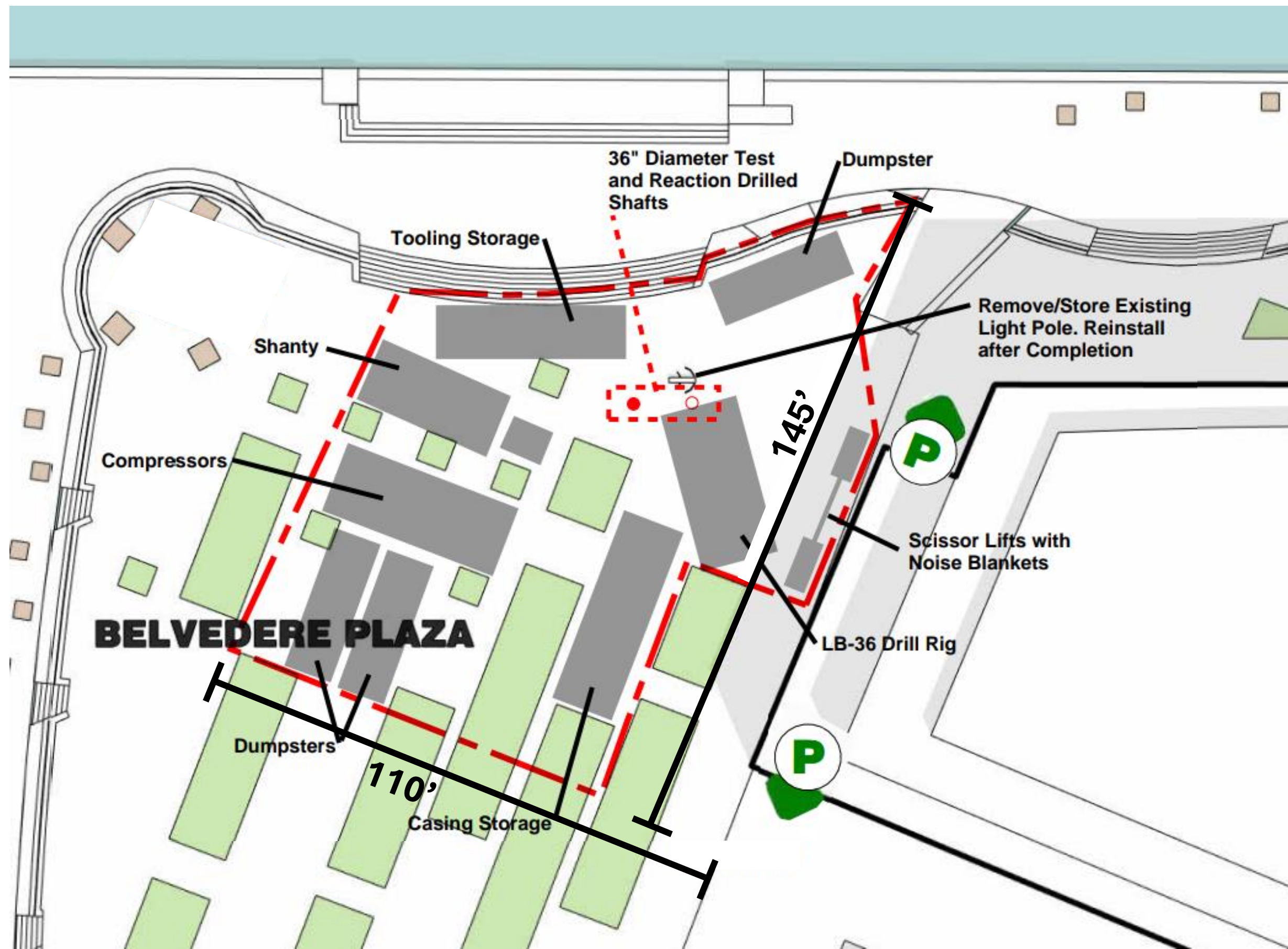
**Mobilization to set up Full
Work Zone:** December 2-13

Shaft drilling: December 9-20

Curing and Testing:
December 23-January 24

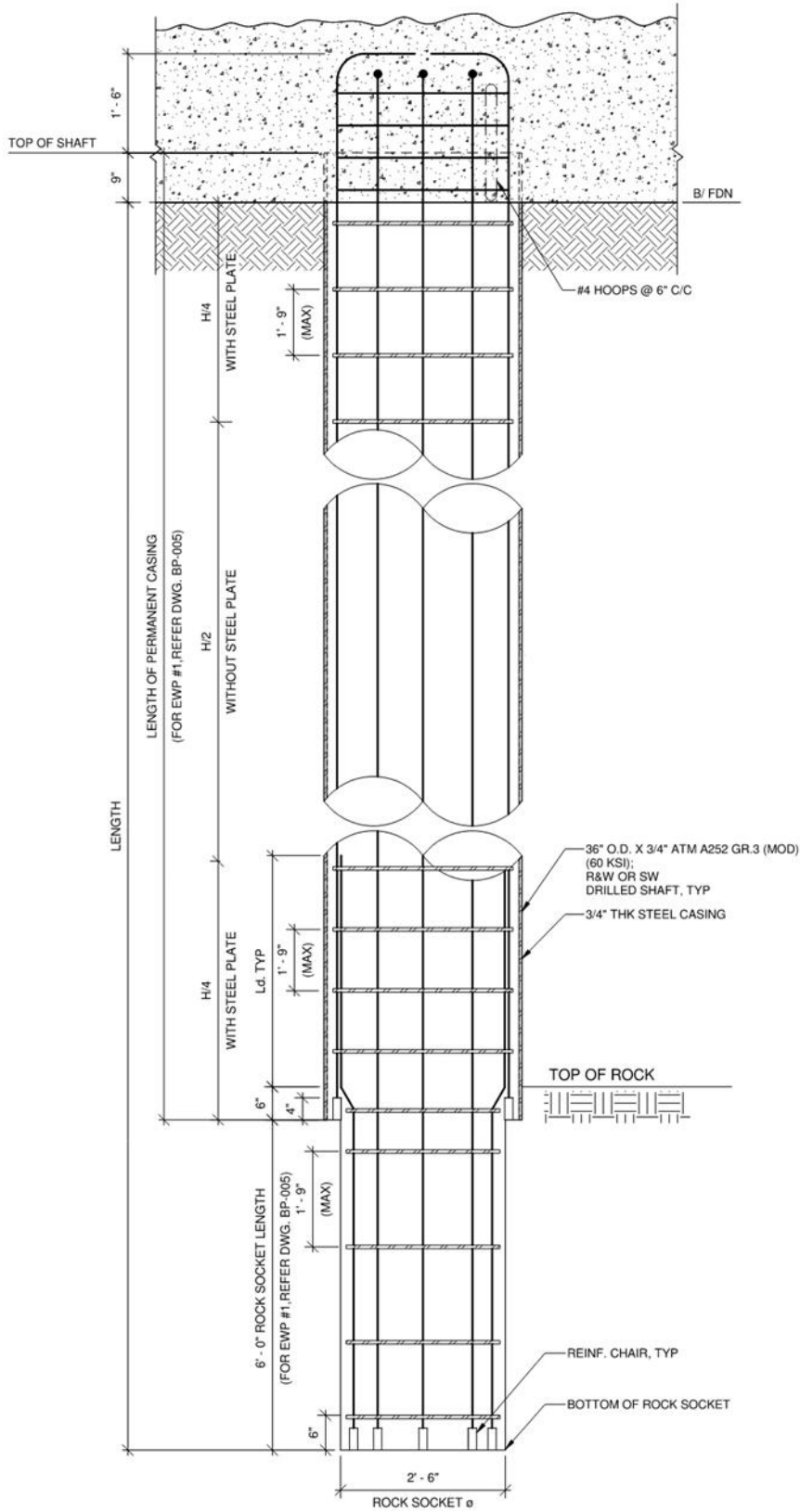
Restoration of Site: January
27-31

Test Pile Locations- Reach 5/ Belvedere Plaza (Location 3)

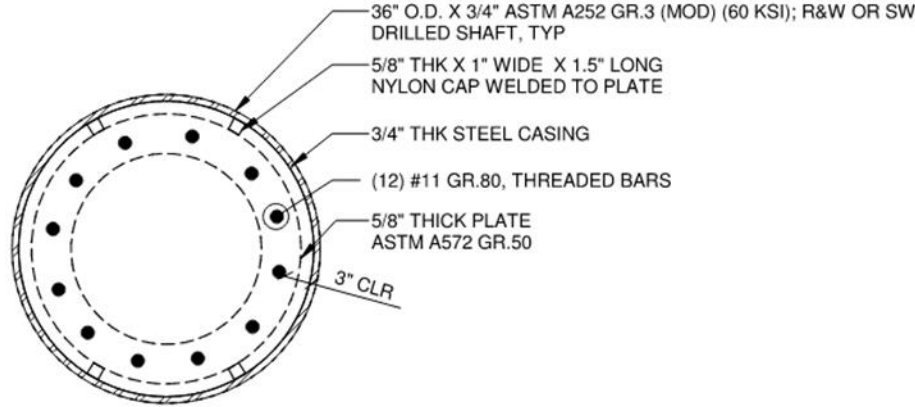


- Pedestrian traffic rerouted around Belvedere Plaza (see previous slide)
- Shaft Work performed:
 - 2 drilled shafts
 - 36" in diameter each
 - Approximately 75 feet deep

Drilled Shaft Installation- 36"



TYPICAL 36" Ø DRILLED SHAFT SECTION



1 SECTION
S-006.1 SCALE: 3/4" = 1'-0" 0' 1' 2' 3'



Overall Schedule

Location 1: November 20- January 17

Location 2: November 21- January 24

Location 3: November 25- January 31

Location 4: December 2- February 7

