

MSK Pavilion

CB8 Task Force Meeting

June 29, 2023



Memorial Sloan Kettering
Cancer Center

Upcoming Task Force Schedule

Today: Construction and the Pavilion Connecting Bridge

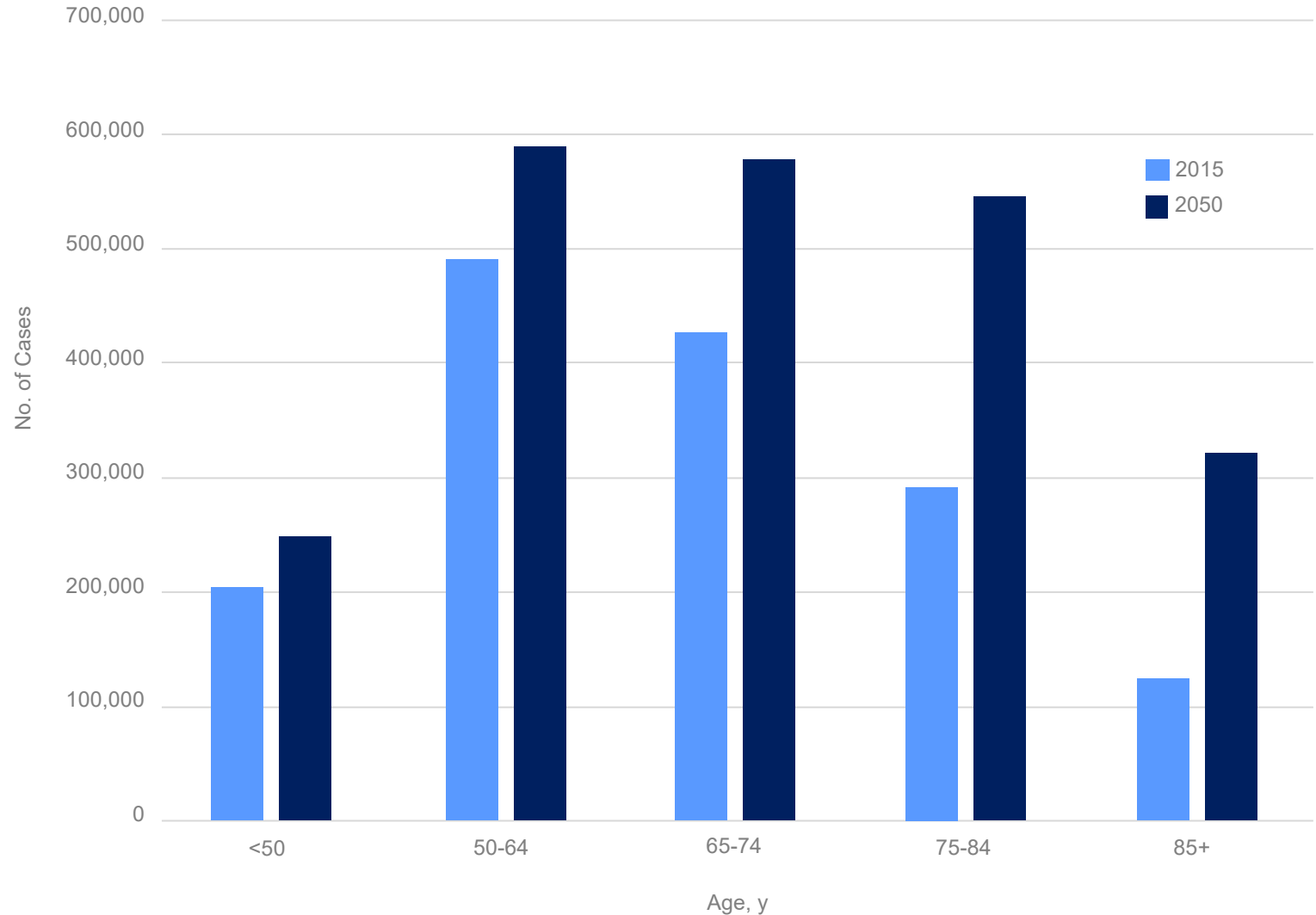
- Construction and connecting bridge presentation, including process, community considerations, enhanced mitigation efforts, and the revocable consent process for the connecting bridge.

Thurs, July 6th

Final Discussion

Cancer rates will increase 50% by 2050

- 1 in 3 people will have cancer
- 40,000 new cases per year in New York City
 - 47,000+ cases projected by 2030; 60,000 by 2050
- Two groups particularly concerning:
 - Older New Yorkers
 - Younger New Yorkers with rising rates of prostate, colon, breast cancer



- C.D.C., 2021
- Ahmad FB, Cisewski JA, Anderson RN. Provisional Mortality Data — United States, 2021. *MMWR Morb Mortal Wkly Rep* 2022;71:597-600.
- NYC DOHMH. Available at <https://www1.nyc.gov/site/doh/health/health-topics/cancer-prevention.page>.

Participants

Dr. Jeff Drebin, Chair of the Department of Surgery and Acting Hospital President

Laura Ardizzone, Director of Nurse Anesthesia Services

Jason Tavarez, Turner Lendlease

Rob Masters, CannonDesign

Shelly Friedman, Land Use Counsel

Amador Centeno, Senior Vice President of Facilities Management and Real Estate Development
(available for Q&A)

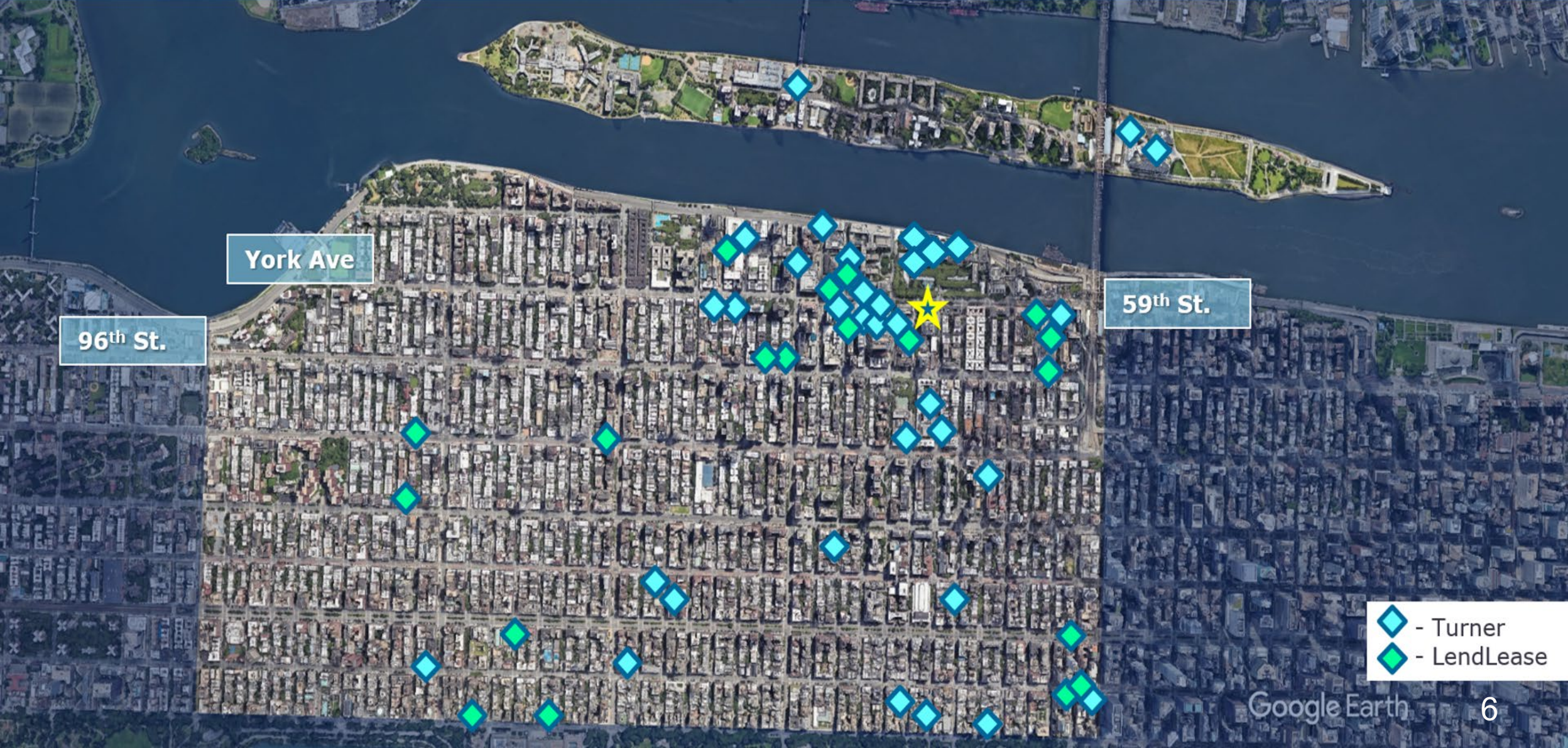
Roger McClean, Director, Design & Construction (available for Q&A)

Rich Steimel, Turner Lendlease (available for Q&A)

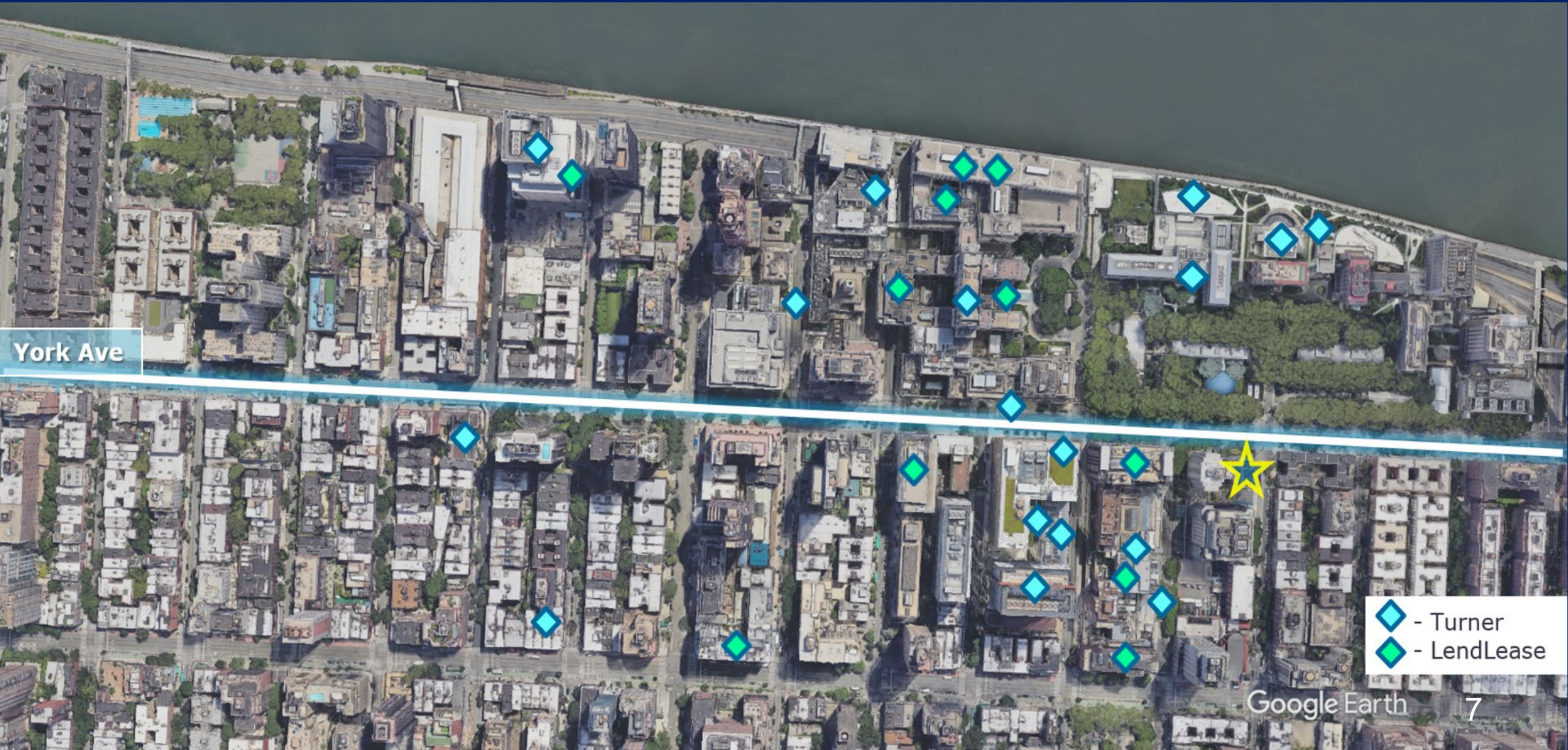
Charlie Whitney, Turner Lendlease (available for Q&A)

Surrounding Community & Local Experience

Turner & Lendlease Community Board 8 Projects



Turner & Lendlease Community Board 8 Projects



York Ave

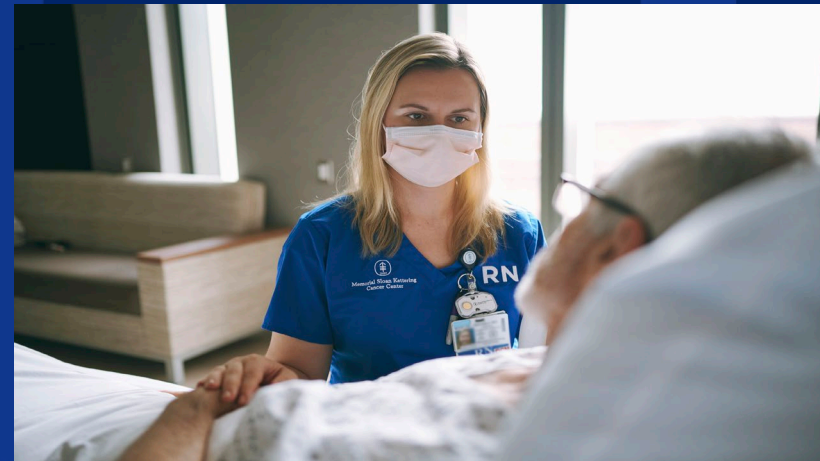
- ◆ - Turner
- ◆ - LendLease

Google Earth

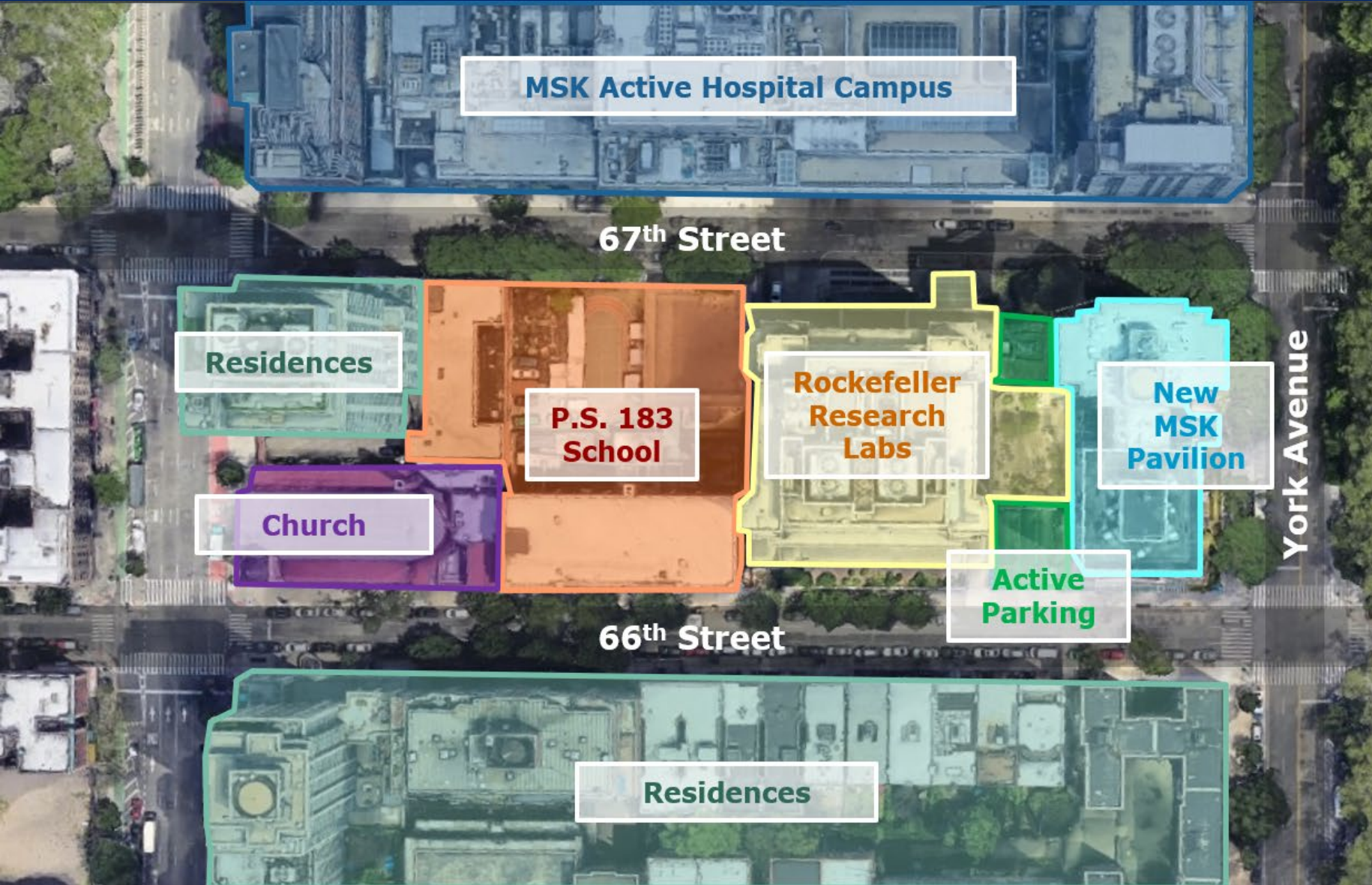
Local Community Considerations



Our Approach: Methods for Construction Adjacent to Inpatient Hospital Beds



Surrounding Area



Keys to Success



Open Dialogue



Key Stakeholders

- P.S. 183
- Adjacent residents
- Community Board 8

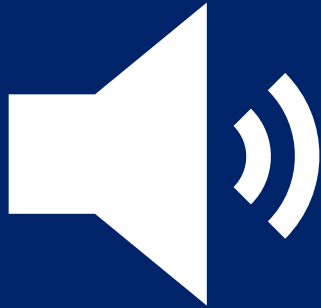
Form Construction Working Group

- Regular meetings
- 30-Day “Look-Aheads”
- Hotline to report issues
- Website for broad announcements
- Direct contact in advance of critical planned activities



Memorial Sloan Kettering
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Minimizing Noise and Vibration



Pre-Construction Engineered Solutions

- Sound insulation on site fence
- Sound baffles/shrouds on equipment
- Sound baffles on internal debris chutes during demolition
- Channeling rock to separate areas before chopping
- Pre-construction surveys of existing conditions

Monitoring and Addressing

- Third party consultant
- Strategically placed noise/vibration sensors



Minimizing Dust/Dirt



Keeping Dust/Dirt Within Site

- Wetting down surfaces of dust creating activities
- Washing down all vehicles before they exit the site
- Providing windscreens/barriers as needed
- Enforcing low speed limits on deliveries

Additional Protection Outside of Site

- Applying filters on HVAC on intakes of adjacent buildings when possible



Pre-Construction Planning: Minimizing Interference to Vehicular and Pedestrian Traffic



- Detailed traffic analysis to facilitate proper planning
- Close coordination with DOT through all phases of construction
- Coordination with MTA for bus routing
- Coordination with other construction sites to minimize closures on East 66th and 67th
- Offsite construction to minimize number of workers and deliveries arriving to the site
- Enforce idling restrictions
- Coordinate deliveries around site capacity



Communication with Stakeholders, Drivers, and Pedestrians



- Ongoing direct coordination with P.S. 183, St. Catherine's Park, CB8 and other stakeholders
- Advanced announcements to changes in routes
- Clear signage
- Flag-person at key areas (each garage entrance, site fences, etc.)

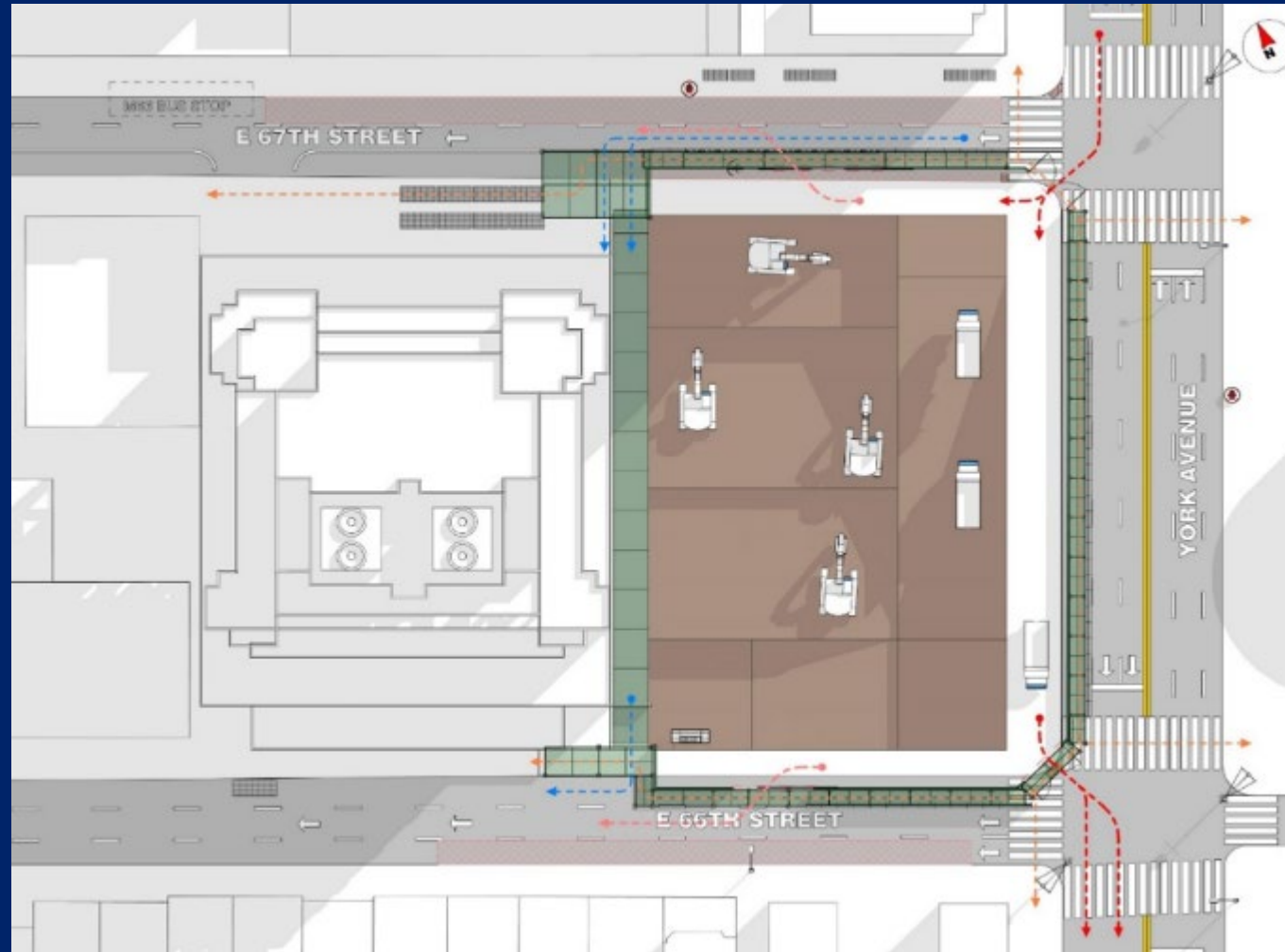


Logistics Phases & Schedule Impacts

Rock Excavation

Focus:

- Noise and vibration mitigation
- Dust mitigation



Notes:

- Rock excavation and removal from site
- FDNY protocols adhered to
- Early site utilities work

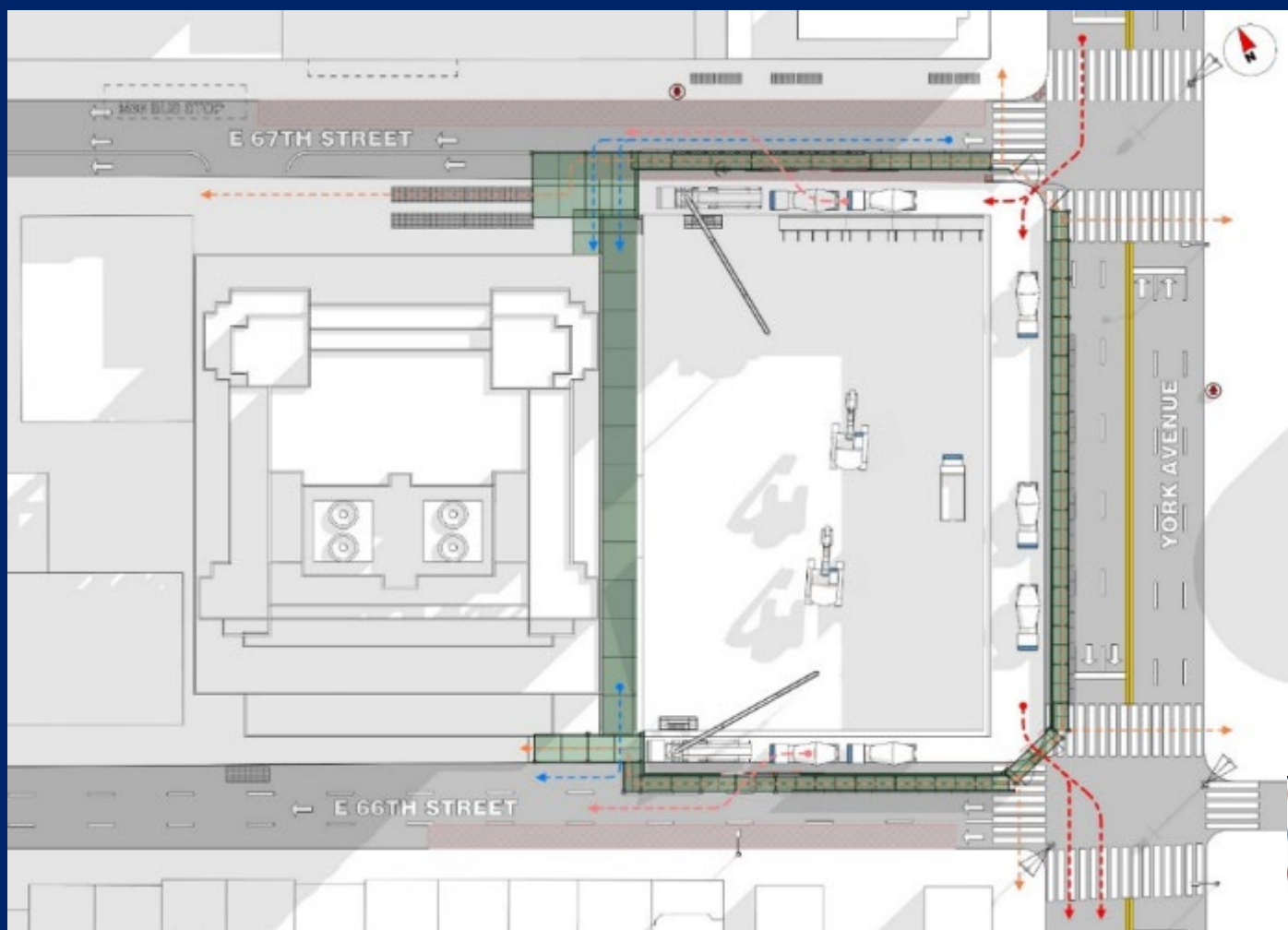
- Pedestrian Path
- Parking Garage Entrance/Exit
- Construction Vehicles
- No Parking

2024			2025			2026			2027				2028				2029				2030			
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2

Foundations

Focus:

- Dust mitigation from concrete operations
- Traffic during concrete pours



Notes:

- Below grade concrete pours

- Pedestrian Path
- Parking Garage Entrance/Exit
- Construction Vehicles
- No Parking

2024			2025				2026				2027				2028				2029				2030	
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2

Revocable Consent for the East 67th Street Bridge

Precedents for Connecting Bridge Revocable Consent



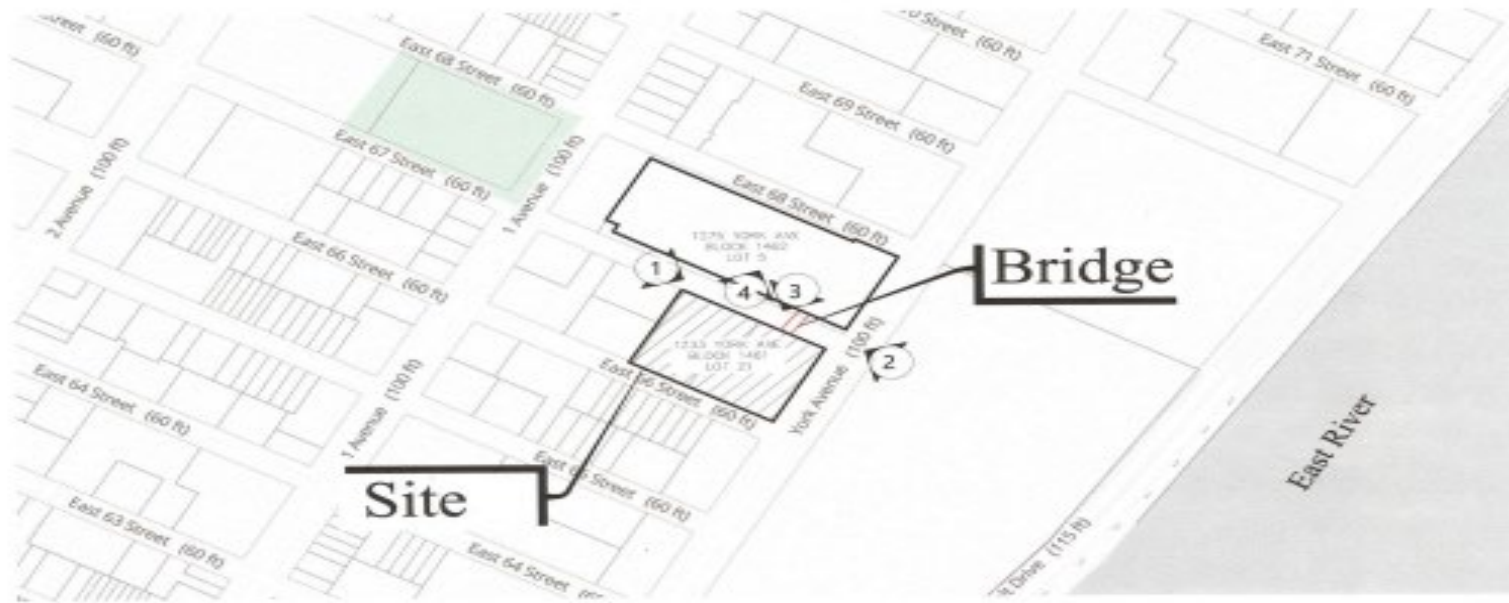
- New York has a long history of issuing revocable consents to hospitals for enclosed bridges over City streets.
- According to DOT records, the first revocable consent for a bridge over a City street was issued in 1907 to New York Hospital for a bridge over Staple Street in Tribeca, connecting two hospital buildings. It is still there today and is a New York City Landmark.
- Since 1907, the City has issued 26 revocable consents and one CPC special permit for bridges, 11 of them to hospitals to connect medical buildings.



Memorial Sloan Kettering
Cancer Center

Revocable Consent NYCDOT Application Drawings





LOCATION PLAN
SCALE: 1"=200'



PLAN

SHOWING LOCATION OF
PROPOSED BRIDGE

TO BE CONSTRUCTED ABOVE AND ACROSS
EAST 67TH STREET BETWEEN 1233 YORK
AVENUE AND 1275 YORK AVENUE
BOROUGH OF MANHATTAN
TO ACCOMPANY APPLICATION
DATED 3/4/23
OF
**MEMORIAL HOSPITAL FOR
CANCER AND ALLIED
DISEASES**

TO THE
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK
MEMORIAL HOSPITAL FOR CANCER AND
ALLIED DISEASES
BY Roger McClean
ROGER McCLEAN
DIRECTOR -DESIGN & CONSTRUCTION,
APPLICANT

ZONING INFORMATION

1233 YORK AVE: BLOCK 1461 LOT 21
1275 YORK AVE: BLOCK 1462 LOT 5
ZONING DISTRICT: R10/R8
ZONING MAP: 8c

CHARACTER OF MATERIALS:

UNITIZED CURTAIN WALL SYSTEM
WITH FRITTED GLASS PANELS,
STRUCTURE AND INTERIOR
OBSCURED BEHIND FRITTED GLASS, STEEL
STRUCTURAL BEAMS, CONCRETE FLOOR
ON METAL DECK.

COST OF REMOVAL AND RESTORATION:

PROPOSED IMPROVEMENTS
SHOW IN RED



1. VIEW LOOKING SOUTHEAST



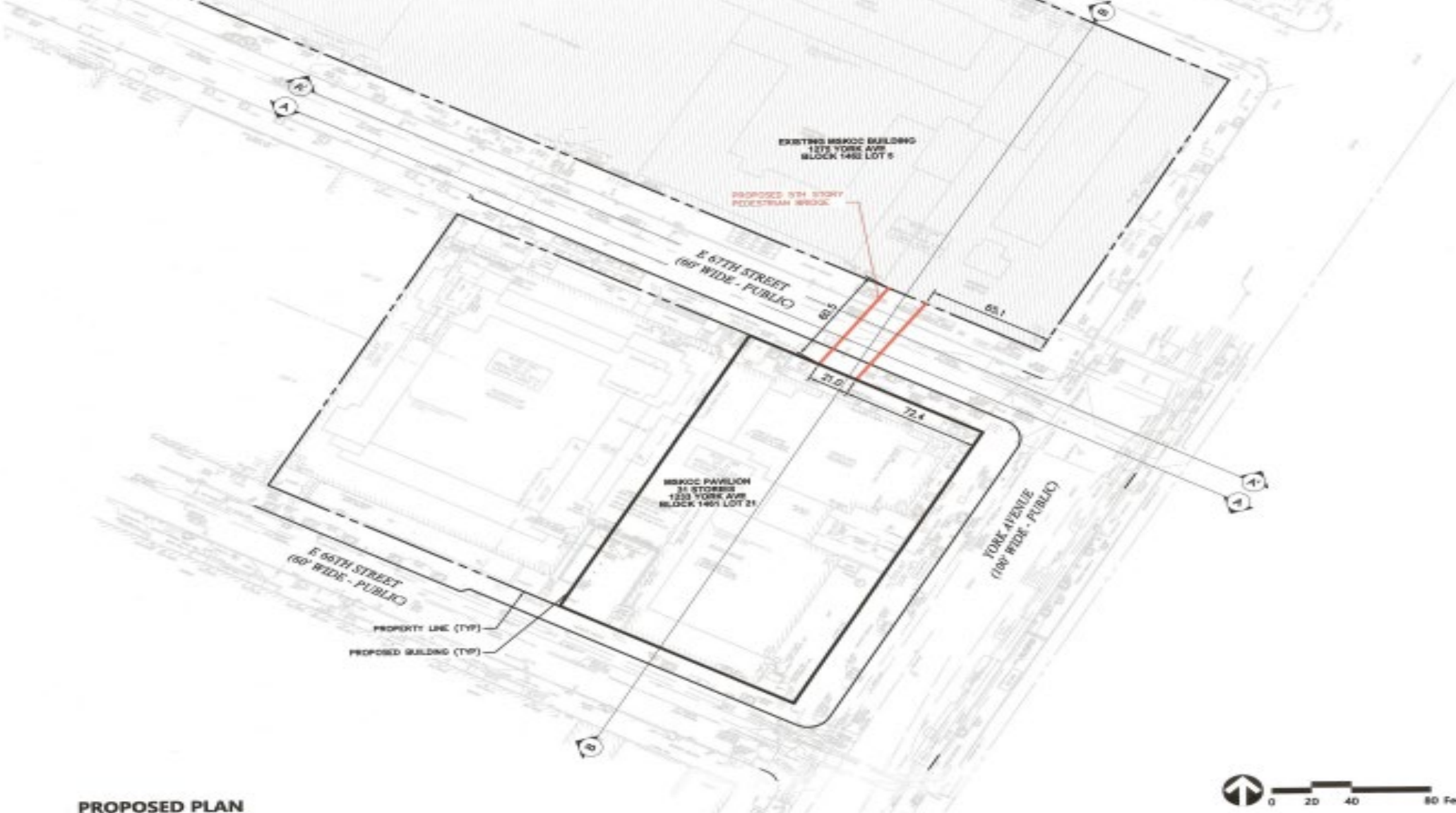
2. VIEW LOOKING NORTHWEST



3. VIEW LOOKING SOUTHWEST



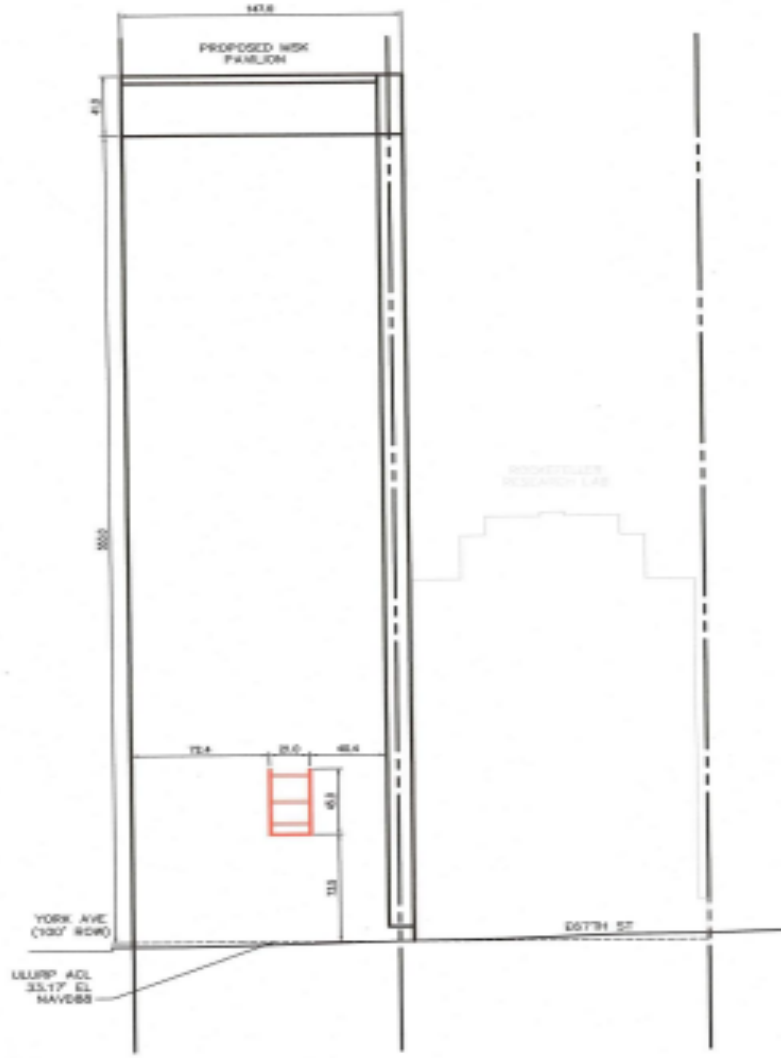
4. VIEW LOOKING NORTHEAST



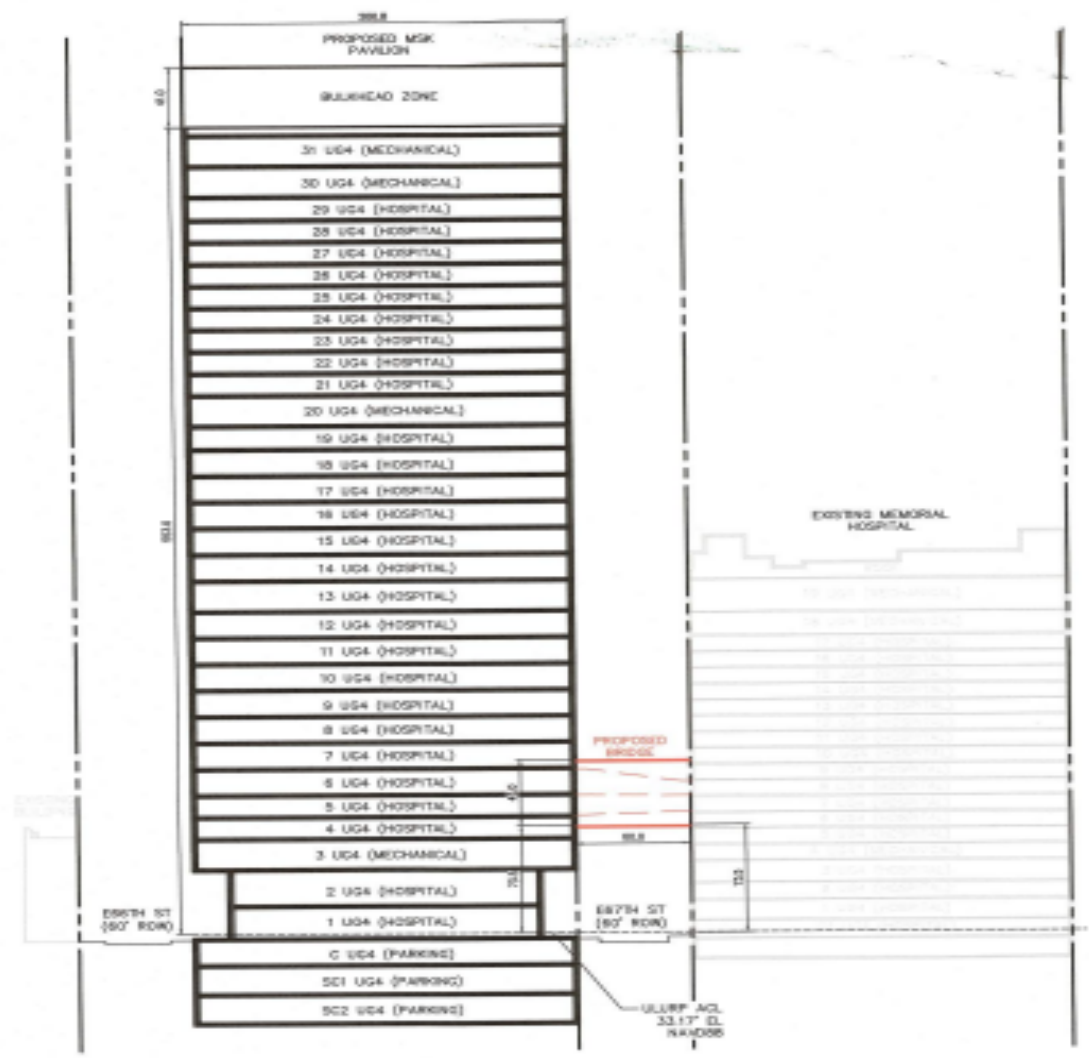
PROPOSED PLAN
SCALE: 1"=40'

Exist.	Prop.		Exist.	Prop.		Exist.	Prop.	
		PROPERTY LINE			CATCH BASIN			SGN
		EDGE OF PAYMENT			SEWER MANHOLE			TREE
		CONCRETE CURB			FIRE HYDRANT			FIRE DEPT CONNECTION
		BUILDING			WATER METER			ELECTRIC MANHOLE
		BUILDING ENTRANCE			GAS METER			LIGHT POLE
		BOLLARD						STREET LIGHT

LEGEND

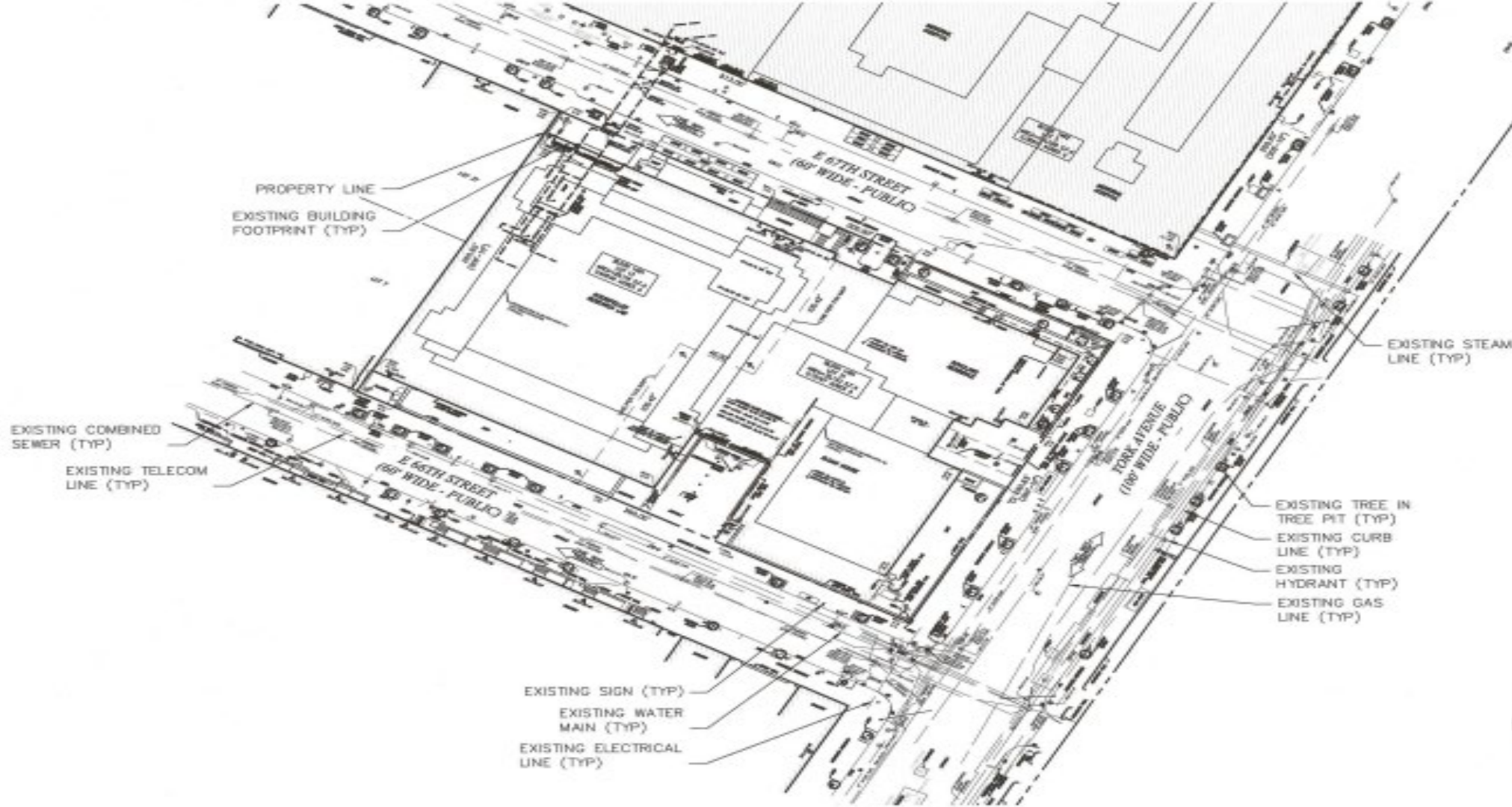


PROPOSED SECTION A-A
1" = 60'



PROPOSED SECTION B-B
1" = 60'





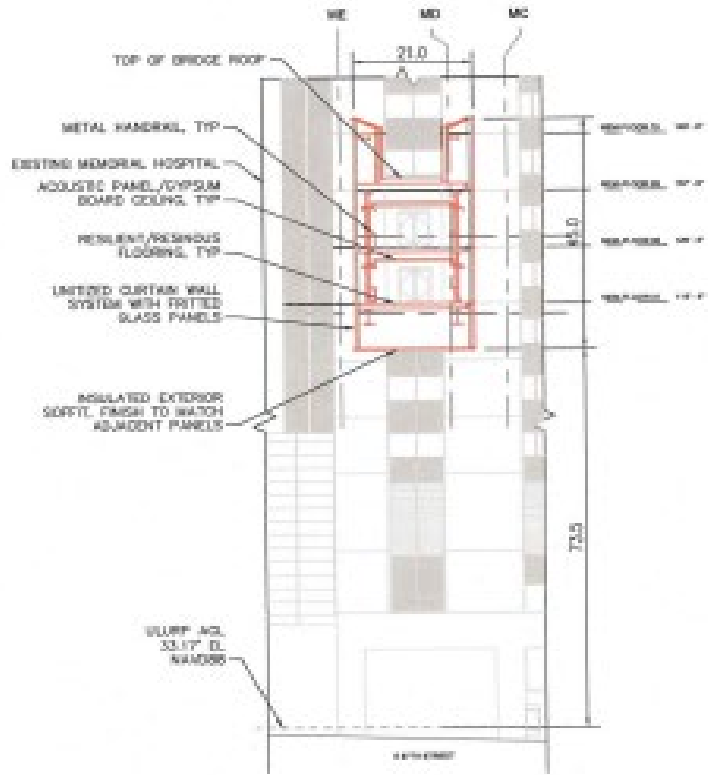
EXISTING PLAN

SCALE: 1"=40'

	PROPERTY LINE		CATCH BASIN		LIGHT POLE		WATER MAIN
	EDGE OF PAVEMENT		SEWER MANHOLE		STREET LIGHT		COMBINED SEWER LINE
	CONCRETE CURB		FIRE HYDRANT		FIRE DEPT CONNECTION		ELECTRICAL LINE
	BUILDING		WATER METER		ELECTRIC MANHOLE		TELECOM LINE
	BOLLARD		GAS METER		TREE		GAS LINE
	SIGN				BUILDING ENTRANCE		STEAM LINE

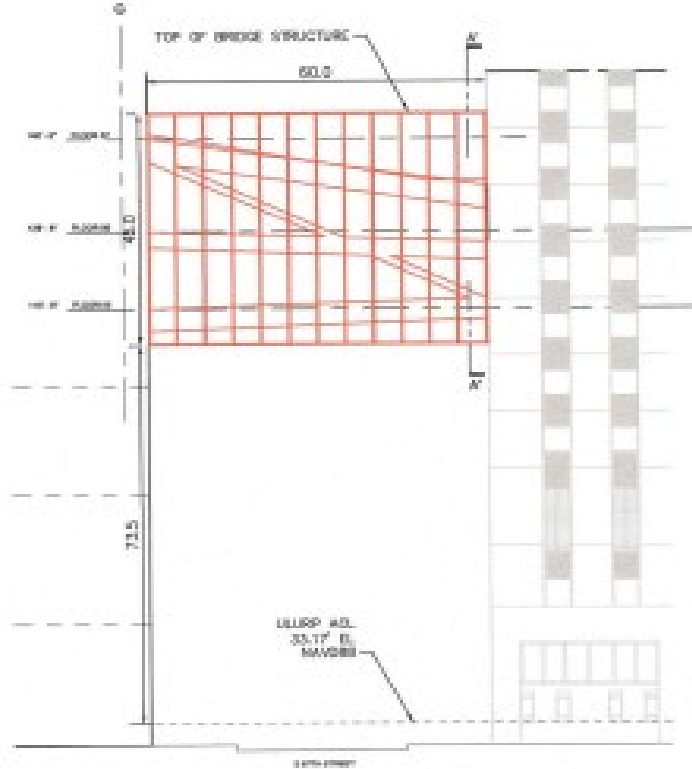
LEGEND





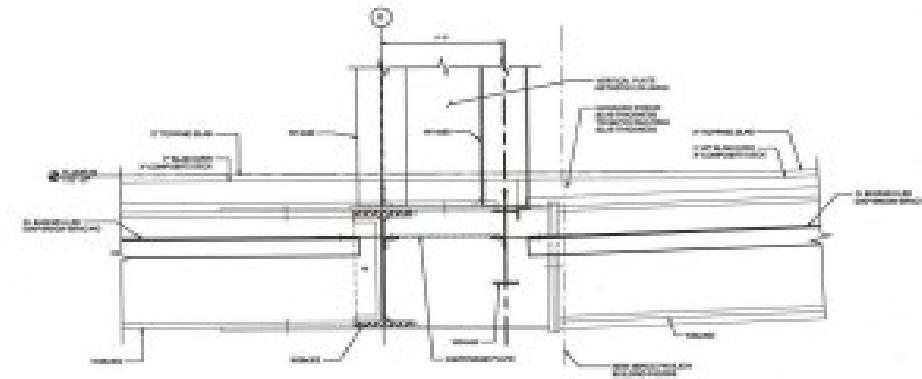
PROPOSED SECTION A'-A'

1" = 20'



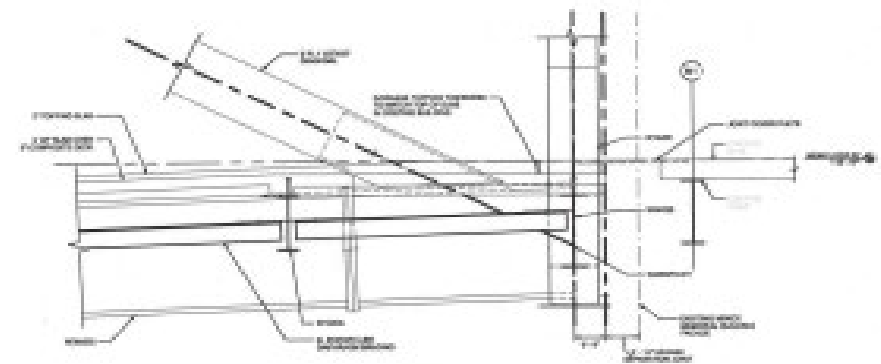
PROPOSED SECTION B-B

1" = 20'



BRIDGE CONNECTION DETAIL 1

NTS



BRIDGE CONNECTION DETAIL 2

NTS



East 67th Street Patient Bridge

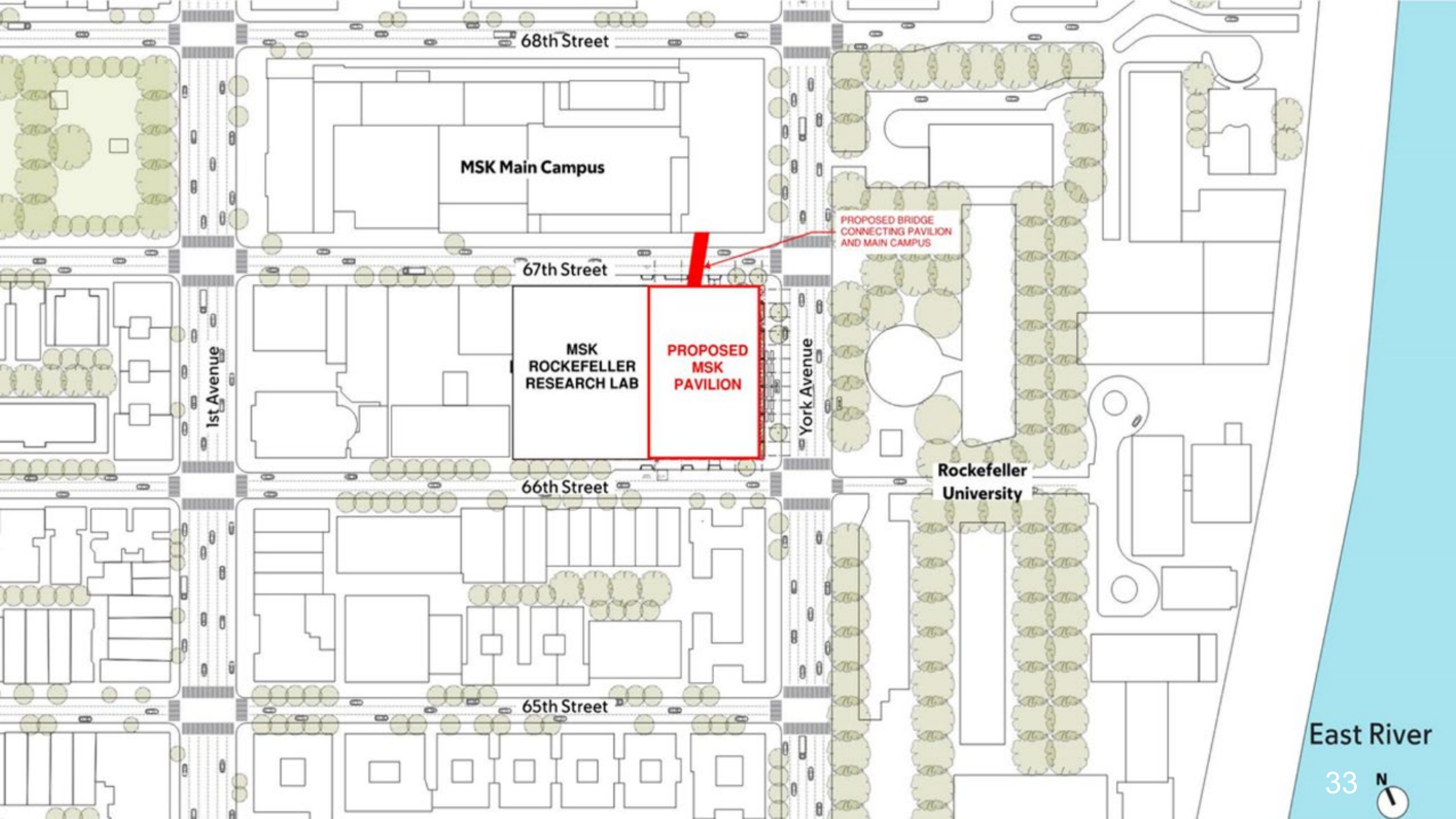
Bridge Necessity

Benefits of Bridge Connection

- Critical connectivity for inpatient movement between Pavilion & Main Campus
- Critical connectivity for clinical personnel, enabling a campus-wide strategy
- Appropriate routes and separations for patient, staff, and service traffic

Challenges Without a Bridge Connection (Tunnel Only)

- Existing public tunnel is already highly used by patients, visitors, and staff
- Existing service tunnel is highly used for material management and not suitable for patient movement
- Unacceptable travel times
- Inappropriate vertical transportation (limited-service elevators)



68th Street

MSK Main Campus

PROPOSED BRIDGE
CONNECTING PAVILION
AND MAIN CAMPUS

67th Street

MSK
ROCKEFELLER
RESEARCH LAB

PROPOSED
MSK
PAVILION

1st Avenue

York Avenue

Rockefeller
University

66th Street

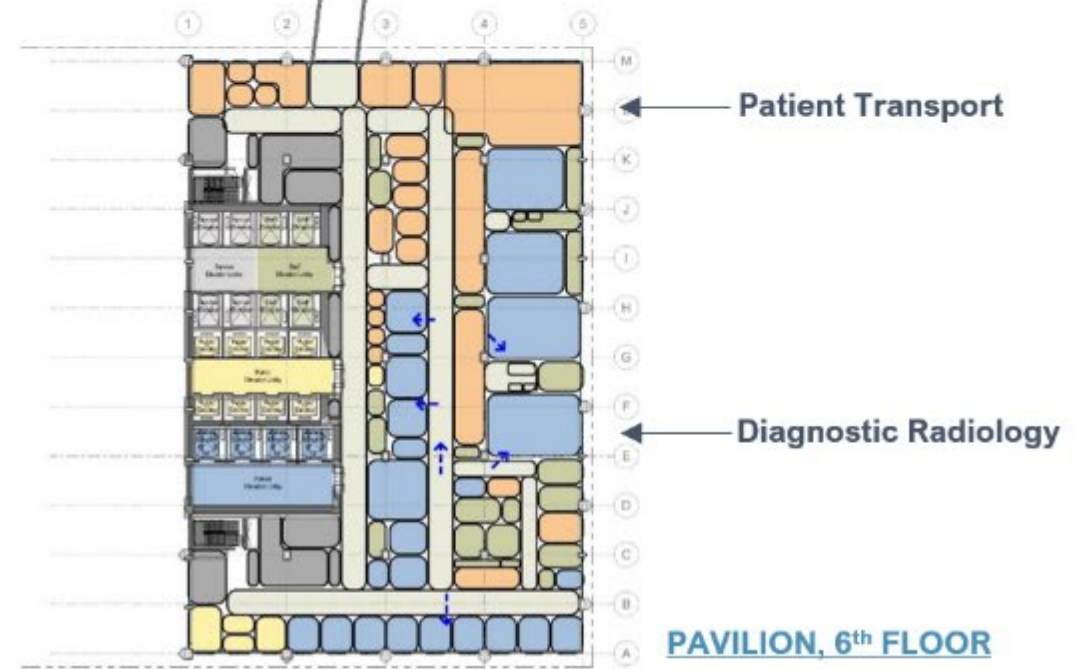
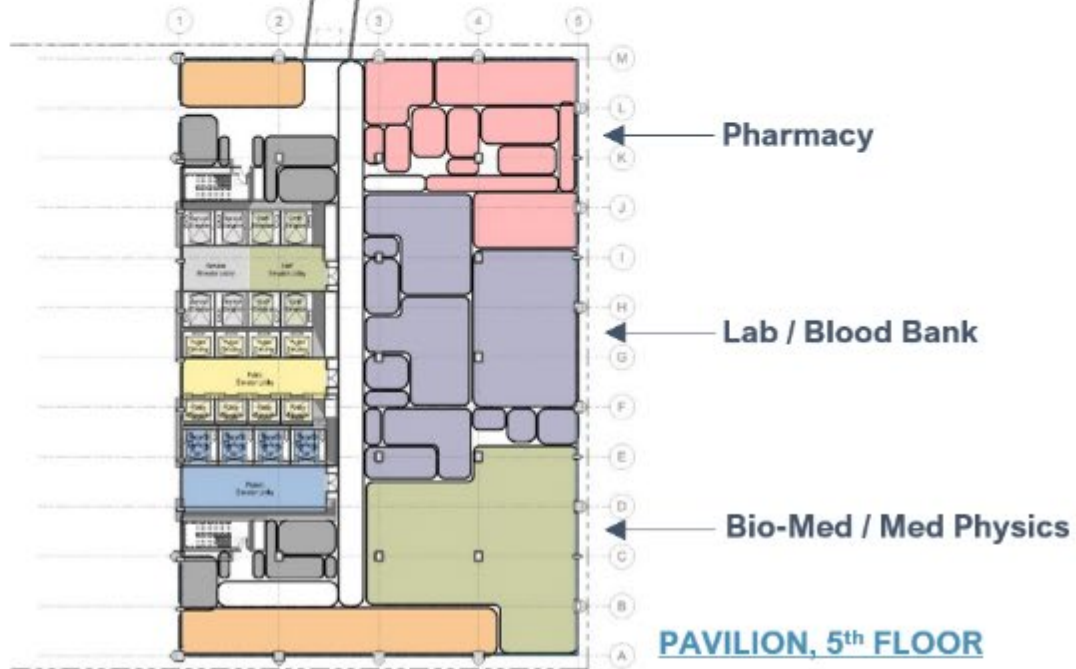
65th Street

East River

33



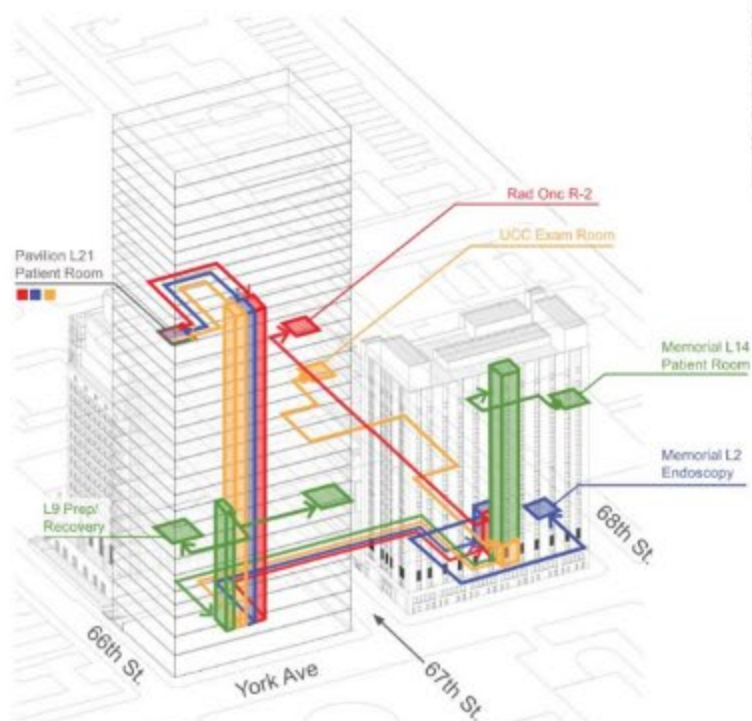
MSK PAVILION: PROPOSED BRIDGE FLOOR CONNECTIONS



PATIENT TRANSPORT SCENARIOS SUMMARY
WITHOUT BRIDGE UTILIZING EXISTING TUNNEL

- Patient Stretcher Path
- - - - -> Patient Ambulance Path

**NOT VIABLE FOR
 PATIENT TRANSPORT**



Diagrammatic Transfer Axon



Memorial - L14 Inpatient



York Ave



Pavilion - Ground Level

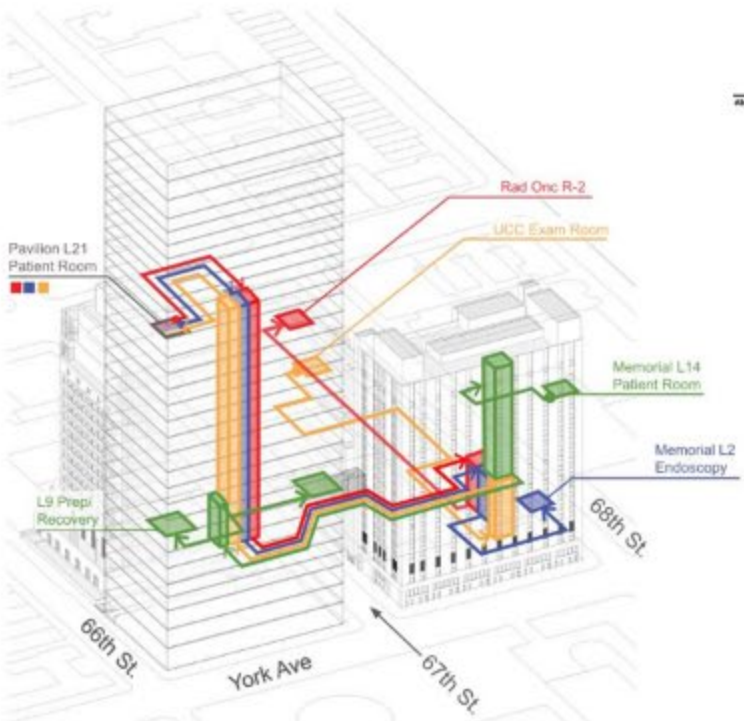


Pavilion - L21 Inpatient

PATIENT TRANSPORT SCENARIOS SUMMARY

WITH BRIDGE

- Patient Stretcher Path
- - - - -> Patient Ambulance Path



Diagrammatic Transfer Axon

Building Stack Diagram

TOP		590		
60 Mechanical	22	692	14,300	-
59 Mechanical	22	136	28,300	-
58 20 beds (acute care/ICU)	16	434	24,900	25,100
57 24 beds (ICU)	15	479	25,300	23,200
56 24 beds (ICU)	16	468	24,900	25,100
55 24 beds (ICU)	15	459	25,300	23,200
54 24 beds (ICU)	15	434	24,900	25,100
53 24 beds (ICU)	15	430	24,900	25,100
52 24 beds (ICU)	15	434	24,900	25,100
51 24 beds (ICU)	16	468	24,900	25,100
50 Mechanical	22	592	14,300	-
49 Accessory/Storage	16	237	25,300	23,200
48 20-bed OR/Prep, 4 PACU	16	329	25,300	25,100
47 20-bed OR/Prep, 4 PACU	16	331	25,300	25,100
46 20-bed OR/Prep, 4 PACU	16	293	25,300	25,100
45 20-bed OR/Prep, 4 PACU	16	286	24,900	25,100
44 Lab / Pharmacy / Taper	10	271	25,300	23,200
43 Mechanical	22	236	25,300	23,200
42 2 OR, 4 Prep/Recovery	18	236	25,300	25,100
41 4 OR, 8 Prep/Recovery	18	190	25,300	25,100
40 4 OR, 8 Prep/Recovery	18	173	24,900	25,100
39 2 OR, 8 Prep/Recovery	18	134	25,300	23,200
38 2 Prep/Recovery	18	136	24,900	25,100
37 20-bed OR/Prep/Recovery	18	136	25,300	25,100
36 2 MR, 1 CT, 1 X-Ray, 1 Lab	13	87	23,800	24,300
35 Materials Management	15	82	25,300	25,100
34 Central Sterile	15	27	22,300	23,200
33 Mechanical	22	42	24,900	25,100
32 Upper Lobby	22	20	17,300	13,300
31 Lower Lobby	22	6	13,300	17,300
Below Grade Sub Total		692,000	6,700,000	
02 Snow Storage/Equipment				
03 Misc Parking	18	25,300		
04 Misc Parking to MBCC				
05 Misc Parking	18	28,300		
06 Parking	28	22,900		

Memorial - L8 Inpatient



Memorial - L14 Inpatient



Utility Shaft
Shift Bridge

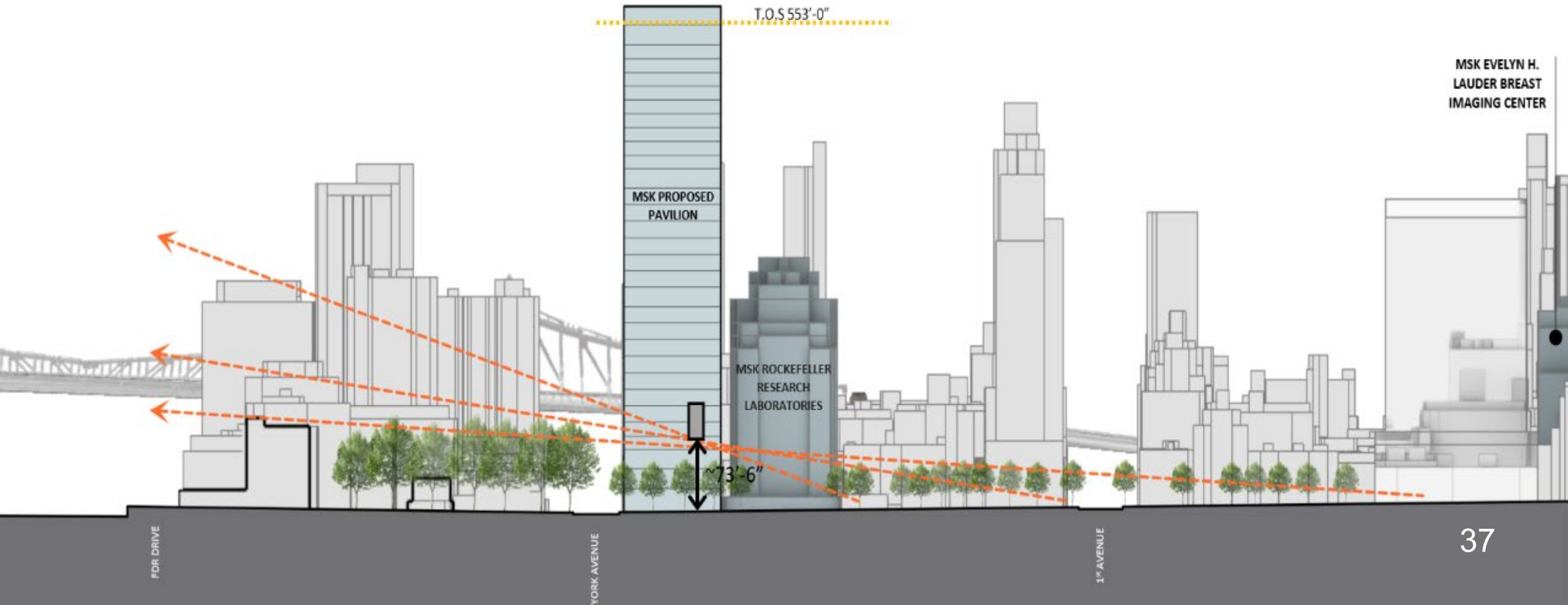


Pavilion - L6 Intake/Imaging



Pavilion - L21 Inpatient

MSK Pavilion: 67th Street Elevation



Connector Bridge: Street View



Thank You

