

A. PROJECT DESCRIPTION

PROJECT IDENTIFICATION

The Office of the Deputy Mayor for Economic Development, with the New York City Department of Housing Preservation and Development (HPD) and the New York City Department of City Planning (DCP), proposes to rezone, create an urban renewal area, and implement the Willets Point Development Plan (“proposed Plan”) in Willets Point, Queens (see Figure S-1).

The proposed Plan’s main goal is to transform a largely underutilized site with substandard conditions and substantial environmental degradation into a lively, mixed-use, sustainable community and regional destination. The approximately 61-acre Willets Point Development District (“District”) would be redeveloped with residential, retail, hotel, convention center, entertainment, commercial office, community facility, open space, and parking uses. In addition, the proposed Plan would connect the Van Wyck Expressway with the District. Although there is currently no specific development plan, the maximum permitted development under the proposed Plan would be 8.94 million gross square feet (gsf).

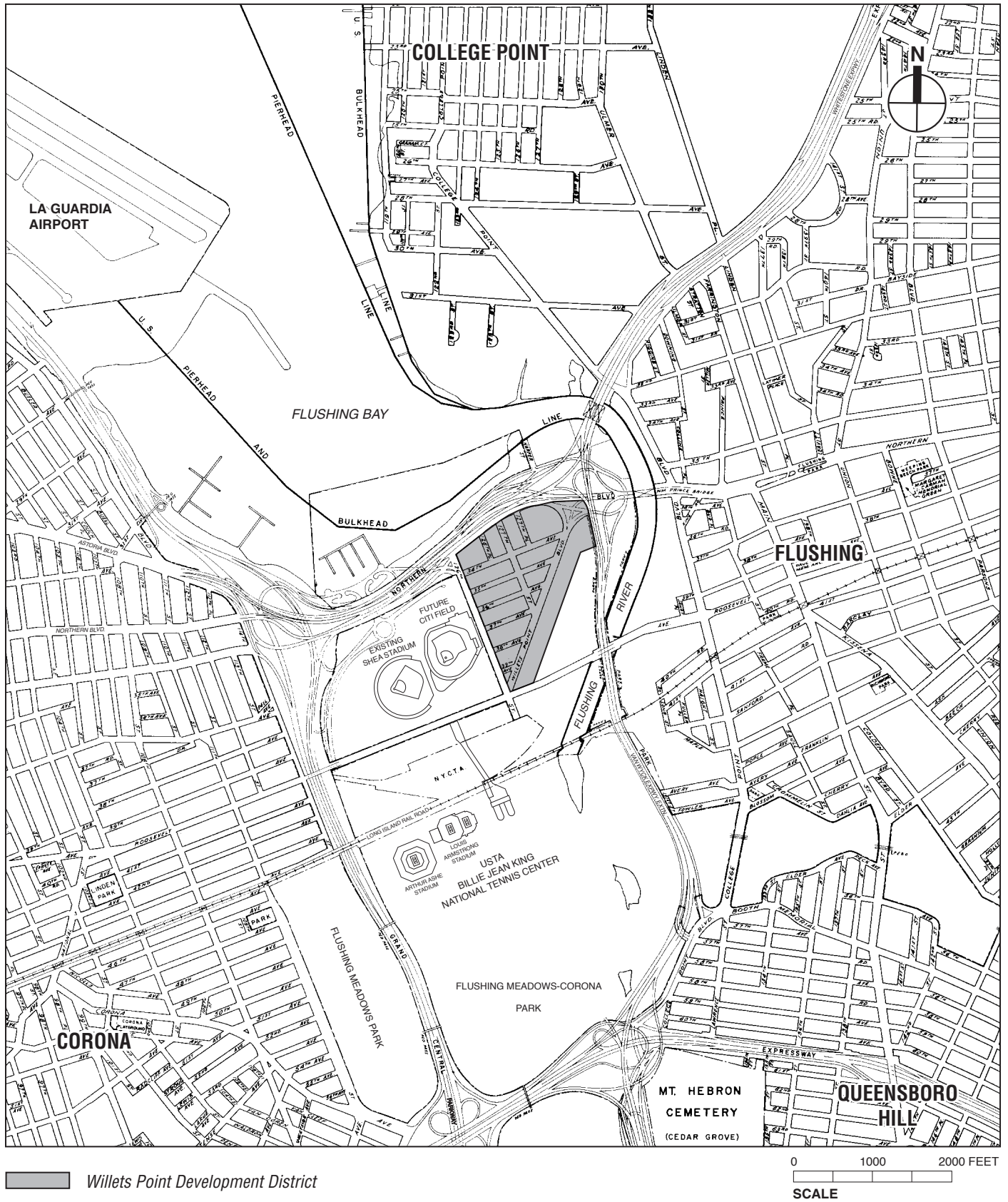
The actions necessary to implement the proposed Plan are subject to environmental review under the State Environmental Quality Review Act (SEQRA) and City Environmental Quality Review (CEQR). Other public processes involved in implementation of the proposed Plan include the City’s Uniform Land Use Review Procedure (ULURP) and potentially the Eminent Domain Procedure Law (EDPL).

Because it has been determined that the proposed Plan would result in significant adverse impacts, it requires review and the preparation of a Generic Environmental Impact Statement (GEIS) under CEQR.

PROJECT PURPOSE AND NEED

The Willets Point peninsula is an underutilized industrial area with extensive environmental contamination, open building code violations, poor road and sidewalk conditions, chronic flooding, and limited storm and sanitary sewer infrastructure. Site conditions within the District have hindered redevelopment efforts for decades, and present numerous challenges to any future development efforts in the Willets Point Development District. Two of the greatest challenges are site contamination and site elevation; up to six feet of fill are required to raise the grade of the District so that it is out of the Federal Emergency Management Agency (FEMA) 100-year floodplain.

The proposed Plan evolved from the Downtown Flushing Development Framework—a land use and economic planning strategy developed between 2002 and 2004 by the Downtown Flushing Task Force, a group of public officials and private representatives that the City requested to



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identify growth and improvement opportunities in Downtown Flushing, the Flushing River waterfront, and the Willets Point area. The Task Force outlined the following redevelopment goals for the Willets Point area:

- Create a regional destination that would enhance economic growth in Downtown Flushing and Corona;
- Improve environmental conditions in the District and reflect the sensitive nature of its waterfront setting;
- Create a larger, expanded Flushing core by integrating the two sides of the Flushing River through land use and design;
- Complement the adjacent recreational and sporting facilities;
- Optimize use of existing highway, public transit, and parking infrastructure to minimize local traffic impacts; and
- Create substantial positive economic value for the City and provide a source of quality jobs for area residents.

The City has adopted these goals in the proposed Plan and also aims to achieve the following goals, which are consistent with the vision of the Downtown Flushing Development Framework:

- Provide a substantial number of new housing units to help meet the growing demand for housing in Queens and the City as a whole;
- Ensure that District housing would be affordable to a mix of incomes;
- Provide a world-class example of superior urban design, with a focus on green building and sustainable design practices; and
- Strengthen the role of Flushing and Corona as commercial centers in northern Queens, while helping to meet the demand for office space in Queens and the City as a whole.

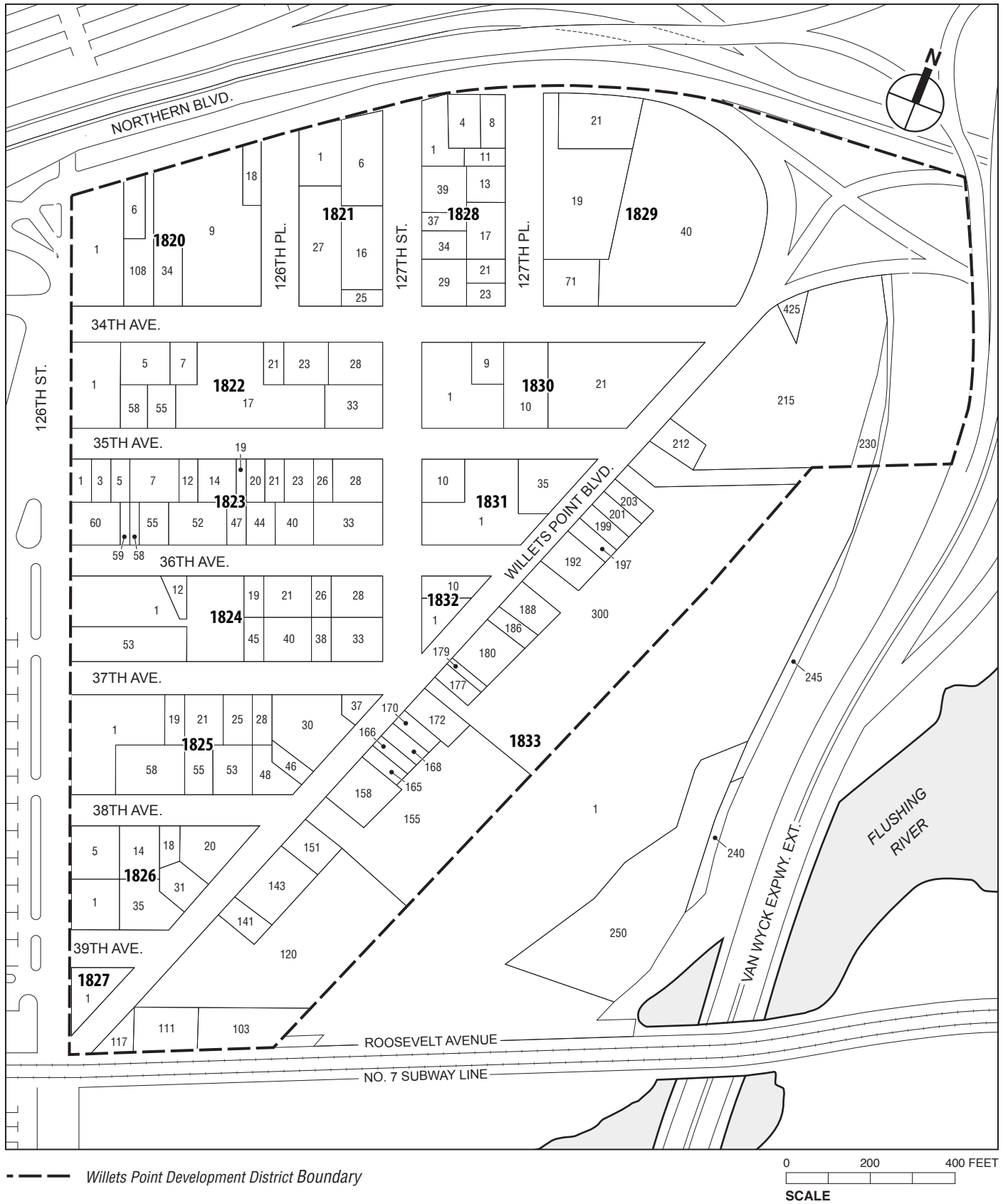
PROJECT BACKGROUND

Since World War II, there have been numerous attempts to redevelop Willets Point, which became known for its many auto repair businesses and junkyards. Since 2000, planning efforts have accelerated. In 2001, HPD's design workshop explored potential redevelopment ideas and recommended land uses that would connect Willets Point with neighboring communities and complement nearby attractions and facilities. Suggested land uses included entertainment facilities; an international commercial center; restaurants and retail shops that would profit from visitors to downtown Flushing, Flushing Meadows-Corona Park, and Shea Stadium; and hotels serving LaGuardia and Kennedy Airports. In 2002, the City created the Downtown Flushing Task Force, which outlined land use and economic goals for the redevelopment of Willets Point in its Downtown Flushing Development Framework. The proposed Plan represents a critical step in implementing this development Framework.

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EXISTING CONDITIONS IN THE DISTRICT

Of the District's approximately 61.4 acres, approximately 15.8 acres are within public street rights-of-way, approximately 45.0 acres are privately owned land, and approximately 0.6 acres are owned by the Metropolitan Transportation Authority (MTA). The District comprises 127 tax lots and one partial lot (block 1833, lot 1) located on 14 blocks (see Table S-1 and Figure S-2). It



contains approximately 260 businesses (primarily a mix of automotive repair and auto body shops, other auto-related retail establishments, junkyards, wholesalers, and construction companies) that employ an estimated 1,711 workers.

Table S-1
Blocks and Lots Affected by Proposed Plan

Blocks	Lots
1820	1, 6, 9, 18, 34, 108
1821	1, 6, 16, 25, 27
1822	1, 5, 7, 17, 21, 23, 28, 33, 55, 58
1823	1, 3, 5, 7, 12, 14, 19, 20, 21, 23, 26, 28, 33, 40, 44, 47, 52, 55, 58, 59, 60
1824	1, 12, 19, 21, 26, 28, 33, 38, 40, 45, 53
1825	1, 19, 21, 25, 28, 30, 37, 46, 48, 53, 55, 58
1826	1, 5, 14, 18, 20, 31, 35
1827	1
1828	1, 4, 8, 11, 13, 17, 21, 23, 29, 34, 37, 39
1829	19, 21, 40, 71
1830	1, 9, 10, 21
1831	1, 10, 35
1832	1, 10
1833	1 (partial)*, 103, 111, 117, 120, 141, 143, 151, 155, 158, 165, 166, 168, 170, 172, 177, 179, 180, 186, 188, 192, 197, 199, 201, 203, 212, 215, 230, 300, 425
Note: * Approximately 24,600 sf of block 1833, lot 1 (owned by MTA) is included in the Willets Point Development District. The remaining approximately 429,000 sf of that lot, which extends along the Flushing River waterfront, is outside of the District.	

Only nine of the District's tax lots utilize more than 50 percent of the allowable gsf.¹ The remaining 118 lots (or 93 percent) are considered to be underutilized. Of these, 27 lots (21 percent) use only 11 to 25 percent of their development potential, and 50 lots use no more than 10 percent of their development potential. Many of these lots are unimproved and are used as open-air storage areas for building supplies, junkyards, and waste transfer uses.

Building code violations are common in the District. There were 192 open building code violations as of January 2008. Many of these violations were for Work Without a Permit, Occupancy Contrary to Certificate of Occupancy, and Failure to Maintain Building. Violations were reported for buildings located on half of the tax lots in the study area, many recording multiple violations. These violations indicate that numerous structures in the District have either been built or altered illegally, are not adequately maintained, or are occupied by businesses not permitted to be operating on site.

Site conditions in the District have hindered past redevelopment efforts and present complex challenges to any future redevelopment. Much of the land area within the District is below the FEMA 100-year floodplain, and up to six feet of fill would be required to grade and raise the

¹ Data were gathered from the New York City Department of Finance Real Property Assessment Data (RPAD).

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District above the floodplain. The District lacks sanitary sewers, and its roadways and sidewalks are in poor condition. In addition, as a result of past uses and recent activities in the District, soil and groundwater have been contaminated. In 2001, 21 junkyards and 35 individuals were indicted for violating State environmental laws by dumping vehicle fluids onto the ground and into storm drains and Flushing Bay. Several area businesses have also been indicted for auto theft, insurance fraud, and racketeering. The illegal activities and harmful environmental practices in the District have created a condition that is threatening to the environment and to the neighboring communities, and a continuation of these practices would burden the health of New York City's residents and economy.

PROPOSED ACTIONS

The proposed Plan would require a number of City, State, and federal approvals. The discretionary actions required or that may be required for the proposed Plan include:

City Discretionary Approvals

- The adoption of a Willets Point Urban Renewal Plan (URP) by HPD to define District boundaries and the area to be redeveloped, as well as to require maximum development envelopes, in accordance with the City's redevelopment goals.
- Acquisition of property in accordance with the URP.
- Disposition of property within the District for development in accordance with the URP.
- A change to the underlying zoning of the District from the existing M3-1 and R3-2 districts¹ to a C4-4 district, pursuant to New York City Planning Commission (CPC) approval (see Figure S-3). The proposed C4-4 zoning would allow for the range of uses anticipated. The existing permitted floor area ratio (FAR) in the M3-1 district is 2.0. A maximum permitted FAR of 3.4 would apply across the entire District, as established by the proposed Special Willets Point District, described below.
- Creation of a zoning Special District to further guide development in the District, pursuant to CPC approval. To promote redevelopment of Willets Point consistent with the goals and objectives of the proposed Plan and to eliminate unnecessary rigidities that would prevent the achievement of the best possible site plan, the proposed Special District would waive certain C4-4 district requirements and the need for certain CPC and New York City Board of Standards and Appeals (BSA) special permits. To create an appropriate scale and density within the District's surroundings, the urban renewal area would have special provisions regarding streetscape and urban design components.
- Demapping of streets within the District, pursuant to CPC approval. To allow maximum flexibility in the creation of the redevelopment site plan, the proposed Plan would include the demapping of all streets within the District.
- Possible acquisition of property by the City pursuant to EDPL.
- Possible approval by the Borough Board of the business terms of the disposition pursuant to Section 384(b)(4) of the City Charter.

¹ A small part of the Willets Point Development District is in an R3-2 district. The portion of the District that is zoned R3-2 contains roadway connections to Northern Boulevard.

State/Federal Discretionary Approvals

- Review and approval of a Freeway Access Modification Report by the New York State Department of Transportation (NYSDOT) and the Federal Highway Administration (FHWA) for new access ramps to and from the Van Wyck Expressway, a highway on the Interstate System.

COMPONENTS OF THE PROPOSED PLAN

As shown in Table S-2, the proposed Plan envisions residential and retail space as the core uses in the District. Office, hotel, and convention center uses would complement these main uses and enhance Flushing and Corona's roles as regional economic centers (see Figures S-4 and S-5). Community facilities and open space would provide amenities and improve the quality of life for residents and visitors.

The URP prescribes a maximum permitted floor area of 8.94 million gsf in the District but allows flexibility in the combination of uses to be developed, and prescribes separate maximum permitted floor areas for residential and commercial uses in the District, including 5,850,000 gsf of residential use and 3,160,000 gsf of commercial use. The zoning Special District would ensure the development of a dynamic, pedestrian-oriented community by determining the placement of uses, building heights and setbacks, street hierarchies, streetscape design, and basic site planning and design provisions.

Since the flexibility provided in the URP could result in a variation in the future development in the District, this Draft GEIS (DGEIS) analyzes two development scenarios—the proposed Plan, which includes an approximately 400,000-square-foot convention center, and the No Convention Center Scenario, in which the convention center is replaced with an additional 350,000 sf of residential use and 50,000 sf of retail use. The anticipated uses are shown in Table S-2.

Table S-2
Willels Point Development Plan

Use	Urban Renewal Plan	Proposed Plan	No Convention Center Scenario
Residential	Up to 5,850,000 gsf	5,500,000 gsf (5,500 units)	5,850,000 gsf (5,850 units)
Retail	Up to 3,160,000 gsf	1,700,000	1,750,000
Office		500,000	500,000
Convention Center		400,000	0
Hotel		560,000 (700 rooms)	560,000 (700 rooms)
Community Facility		150,000 gsf	150,000 gsf
School (K-8)*	—	130,000 gsf (Approx. 850 Seats)	130,000 gsf (Approx 900 Seats)
Parking Spaces**	—	Approx. 6,700	Approx. 6,000
Publicly Accessible Open Space	Minimum 8 Acres	Minimum 8 Acres	Minimum 8 Acres
Total gsf	8,940,000 gsf Maximum	8,940,000 gsf	8,940,000 gsf
Notes: * The capacity of the proposed school would meet the project-generated shortfall in school seats. A 130,000-sf school would accommodate up to approximately 900 seats; the square footage of the new school may be smaller if the project-generated shortfall in seats is less than anticipated. ** The number of proposed parking spaces would be determined based on anticipated project-generated demand. Parking floor area is exempt from the gross floor area calculations, per the Special Willels Point zoning district.			



Illustrative rendering of the District



Illustrative rendering of the District

Willets Point Development Plan

Residential

Under the proposed Plan, 20 percent of the proposed units would be reserved for low- and moderate-income households. Housing units in the District would offer both rental and homeownership opportunities for a range of incomes.

Retail

The accessibility of the District via mass transit and highways presents an opportunity to create a first-class retail, recreation, and entertainment destination that would attract people from both Queens and the larger tri-state area. Entertainment venues would satisfy local and citywide demand while providing activities for before and after sporting events that occur in the area.

Office

New office space in the District would strengthen the role of Flushing and Corona as commercial centers in northern Queens and help meet demand for office space in Queens and the City as a whole. Given its proximity to two major airports and the thriving and expanding Downtown Flushing office district, the District is a suitable location for new office development.

Convention Center

In 2004, a study commissioned by the Queens Chamber of Commerce showed a strong demand for a conference and exhibition facility in Willets Point.¹ Convention center visitors would include residents of Queens and the broader metropolitan region attending one-day events or tradeshow, as well as visitors from outside the region attending multi-day conventions and staying at the nearby hotel.

Hotel

Redevelopment of the District offers an opportunity to create a premier hotel facility in northern Queens. Demand for the hotel would be driven by its proximity to LaGuardia and JFK Airports, the growing Flushing community, the future Citi Field, the USTA National Tennis Center, and the proposed convention center.

Community Facility

Community facility space could include medical offices, day care facilities, community recreation space, dance studios, art galleries, theaters, community arts centers, museums, or a library.

School

A new public school would be provided to serve District residents and would be programmed to meet the project-generated shortfall in school capacity.

Open Space

A minimum of eight acres of publicly accessible open spaces (including a centrally located, approximately two-acre recreational park) would serve the new residents, workers, tourists, and shoppers that would be introduced by the proposed Plan. The Special District regulations would

¹ HVS Convention, Sports, & Entertainment Facilities Consulting, Queens, New York Conference/Exhibition Center and Hotel Feasibility Study, 2004.

require pedestrian amenity areas or open landscaped areas at various locations along the perimeter of the District. In addition, the New York City Economic Development Corporation (NYCEDC) would encourage future developers to incorporate ground-level active open space and other recreational resources, such as rooftop and interior programming of recreational amenities, into the project design as part of their formal request for proposals (RFP) process.

Parking

Parking would be provided to meet the demand generated by the proposed Plan. Parking is expected to be dispersed throughout the District in above- and below-grade parking facilities located in the bases of the proposed buildings. Limited on-street parking would also be available in parts of the District.

Van Wyck Expressway Connection

A new connection between the Van Wyck Expressway and the District would be provided to facilitate the movement of traffic into and out of the District and minimize traffic on nearby local roadways. NYSDOT is currently considering conceptual design alternatives, which include new entrance and exit ramps that touch down in the northeast portion of the District and connect with the primary connector streets in the District (see Figure S-6).

Site Grading

The District would be graded and elevated above the floodplain. One of the greatest barriers to redevelopment in the District is that much of the land area within the District is below the FEMA 100-year floodplain level of 14 feet Above Mean Sea Level (AMSL).¹ Providing new infrastructure (such as roadways, sidewalks, and storm and sanitary sewer lines) at the existing grade would require costly engineering for flood control on lower floors of any new development. To avoid those measures, up to six feet of fill would be required to grade and raise the District out of the floodplain.

Site Remediation

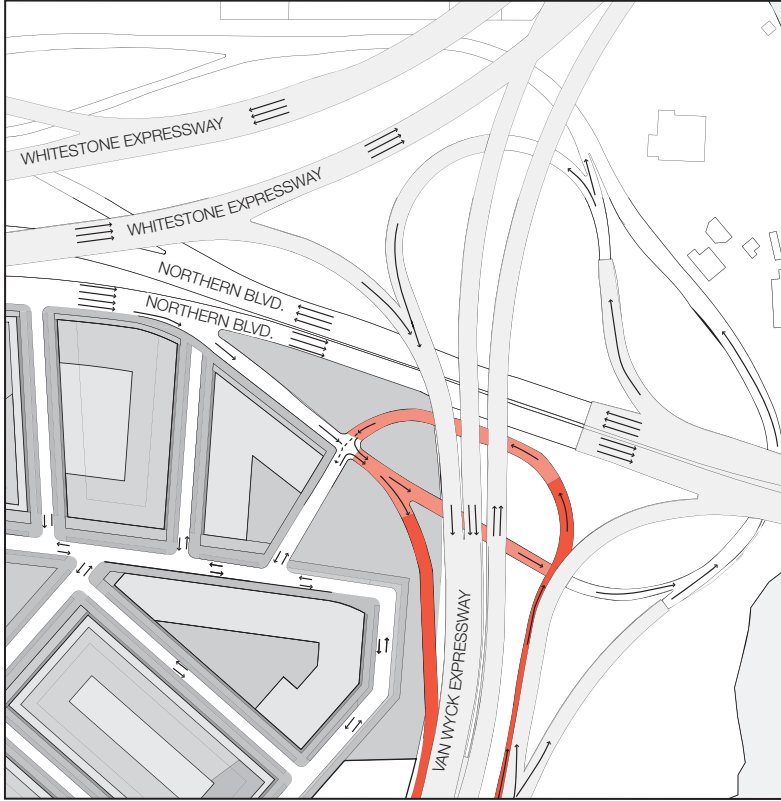
Comprehensive environmental remediation would be implemented across the District, employing such strategies as removing and/or capping contaminated soils and establishing minimum engineering and/or institutional controls (e.g., vapor barriers under new buildings or restrictions on change in use). This comprehensive approach enables the City to establish a cohesive remediation goal and end use for the entire District, while ensuring that a mechanism is in place to prevent recontamination from surrounding uses or off-site contaminants.

Infrastructure and Other Improvements

New sanitary and stormwater lines would be installed, and stormwater detention would be provided on-site. A new sanitary pump station and force main would be constructed to convey sanitary flow from the District to the existing 96-inch-diameter City sewer at 108th Street (which flows to the Bowery Bay Water Pollution Control Plant [WPCP]). The pump station and force main would be designed and constructed to New York City Department of Environmental Protection (DEP) standards. In addition, the existing water mains may be replaced and realigned, depending on the site plan that is ultimately selected, to serve the new uses in the District.

¹ Referencing National Geodetic Vertical Datum of 1929 (NGVD29).

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Project-generated demand for energy would be met by providing additional power lines in the District and potentially providing a new substation. New roadways would also be provided.

DESIGN CONSIDERATIONS

The proposed Plan would be guided by the Special Willets Point District urban design regulations, addressing such elements as the location of uses, building heights and setbacks, street hierarchies, streetscape design, and other site planning and design provisions. Key elements of the Special District and its intended purpose are described below.

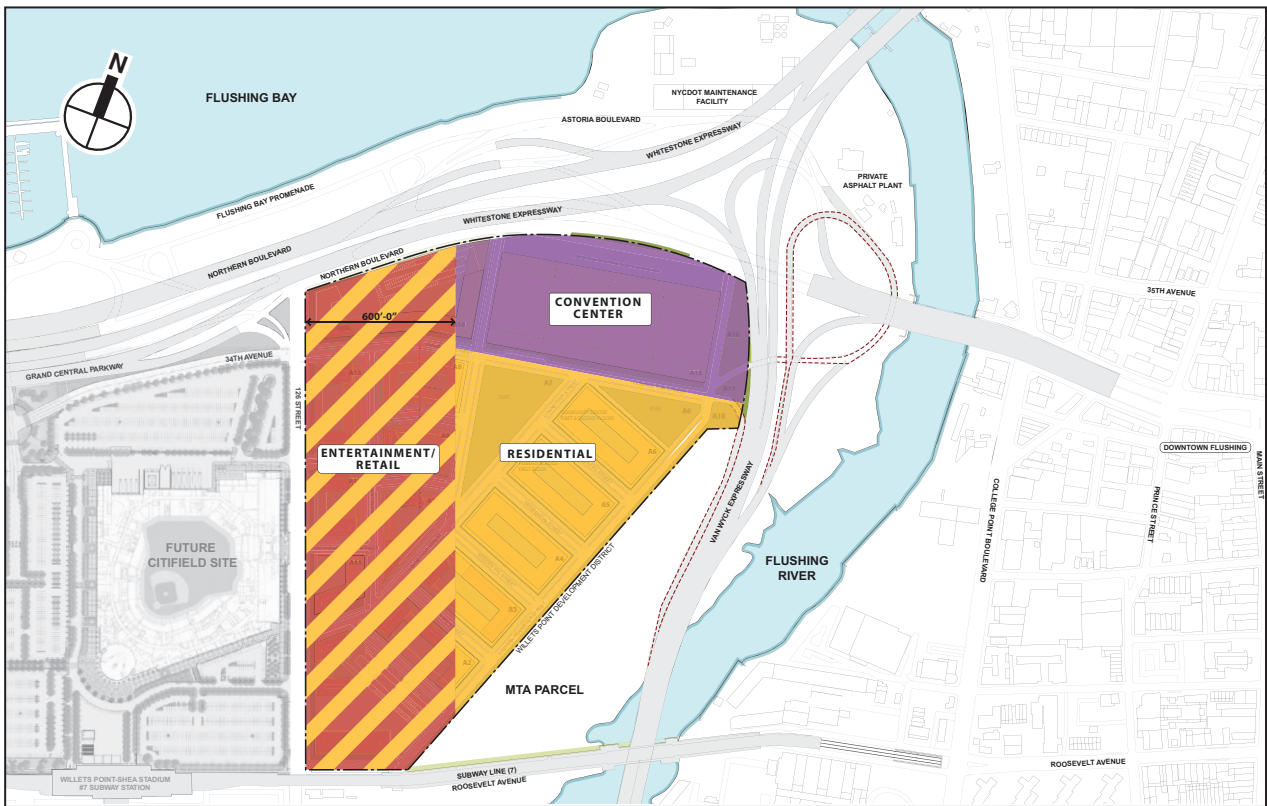
Site Plan and Urban Design

The site planning and urban design of the District are intended to create a dynamic community by integrating regional attractions and residential, retail, and other uses within a network of pedestrian-scaled streetscapes throughout the District. As shown in Figure S7, the Special District regulations would allow for three zones with distinct land uses and designs.

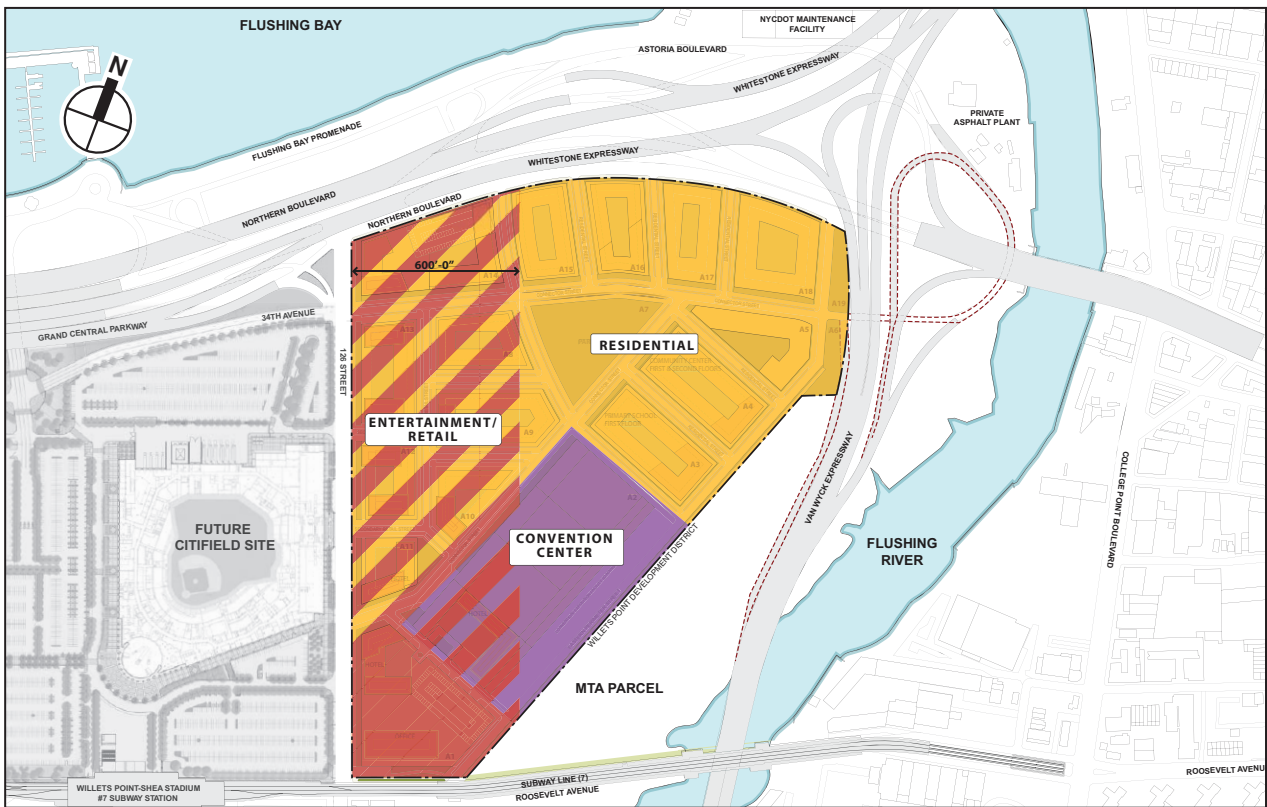
- The **commercial and entertainment center** would be located in the western portion of the District. This area would contain mixed-use structures with restaurant, entertainment, and nightlife uses along 126th Street, and a mix of retail shops on primary and secondary retail streets east of 126th Street. The upper stories of the buildings could contain residential, office, or community facility uses (see Figure S-8). Large commercial anchor blocks would be located at Northern Boulevard and Roosevelt Avenue along 126th Street, with retail uses concentrated close to the new Citi Field. The proposed commercial and entertainment center would create a synergy between the new Citi Field and the District, and function as a new regional attraction.
- The **residential community** would be located in the eastern part of the District and include residential, office, community facility, ground-floor local retail, and parking uses. Design measures would encourage a pedestrian-friendly neighborhood environment (see Figure S-9).
- A **convention center** would be permitted in the eastern portion of the District, with frontage oriented along one of the two required connector streets. The convention center would be permitted in one of two locations: within 1,800 feet of the intersection of Roosevelt Avenue and 126th Street, or within 650 feet of Northern Boulevard (see Figure S-7). The hotel and accessory parking would be located close to the convention center. In the No Convention Center Scenario, additional residential and ground-floor retail uses would be developed in place of the convention center at these locations.

The Special District would regulate the general layout of the principal private streets, by mandating four or five specific intersections along 126th Street and establishing design parameters for five different street types (see Figure S-10). These streets would establish the basic form of the District and ensure that the future uses in the District are integrated into a cohesive site design. Two connector streets would be required. One would extend from 34th Avenue east into the District, and the other would extend east into the District from Citi Field's southern edge. The Special District regulations would require the creation of one primary and two to three secondary retail streets within the entertainment and commercial center, and residential streets within the residential community. An eastern perimeter street would be located within 20 feet of the eastern boundary of the District, extending between Roosevelt Avenue and a connector street.

The Special District would create a walkable, urban streetscape environment by requiring that all off-street parking facilities be fully enclosed and wrapped by active uses so as not to be visible



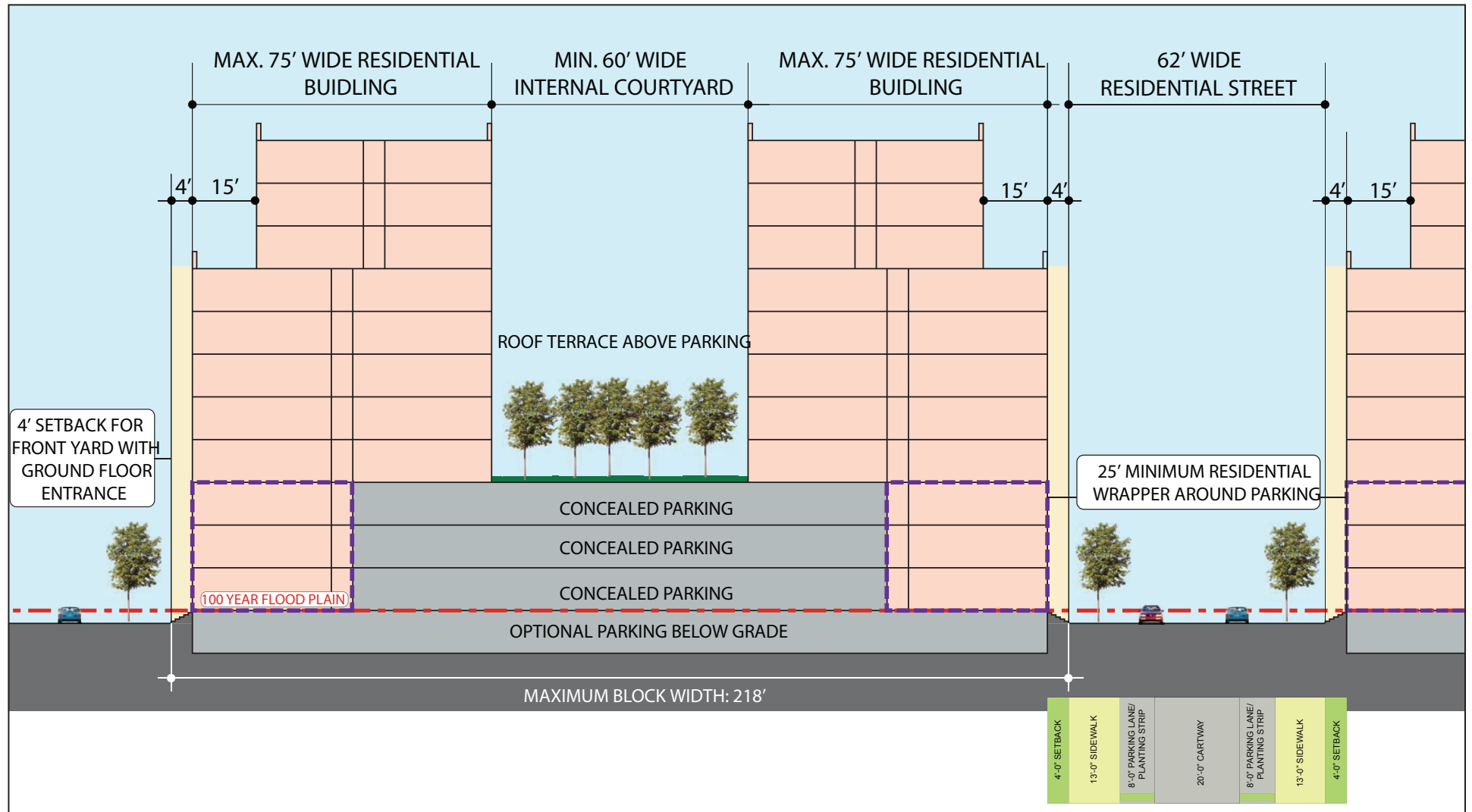
Illustrative Scheme A



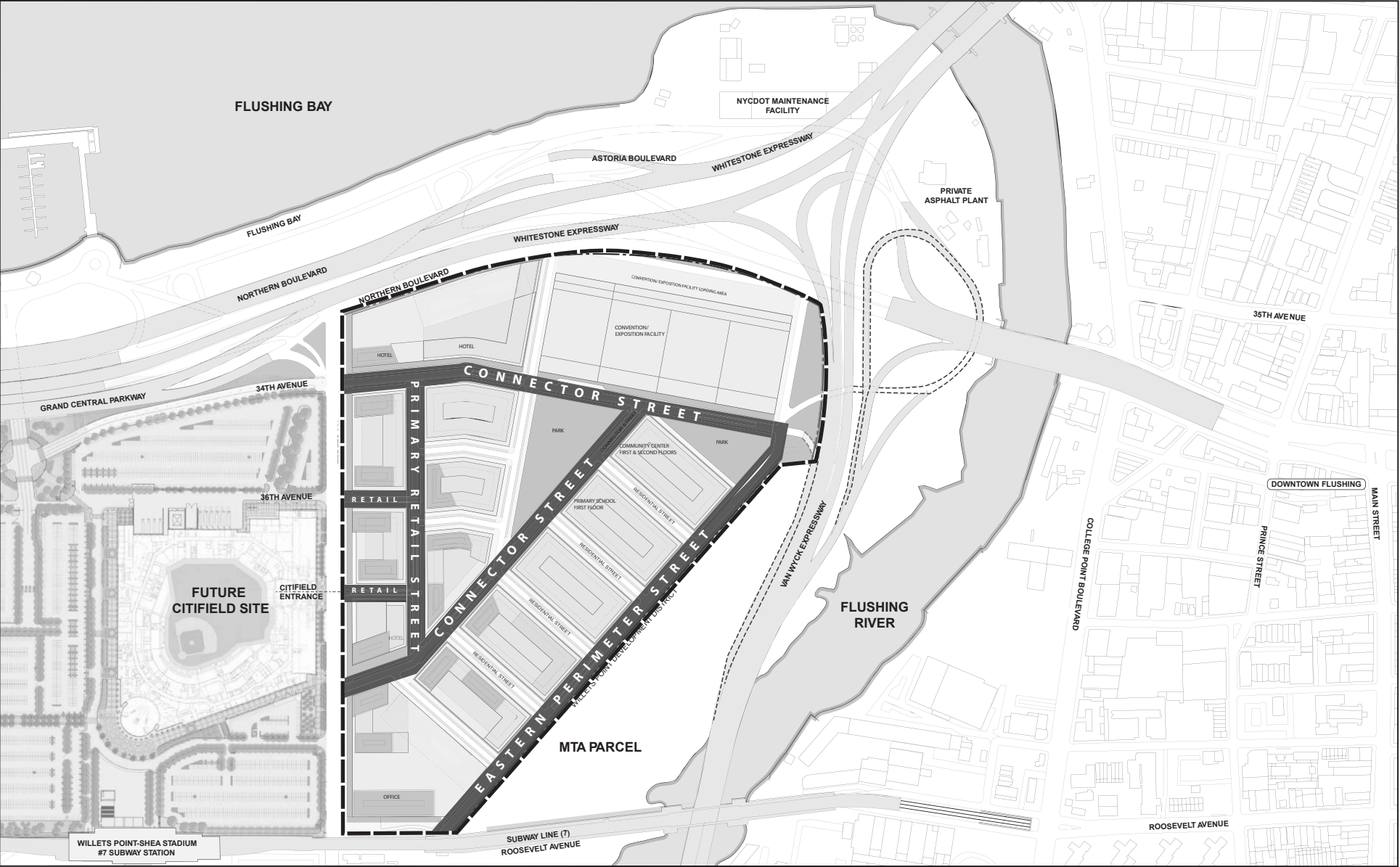
Illustrative Scheme B

WILLETS POINT DEVELOPMENT PLAN

Figure S-8
Entertainment and Commercial Center - Elevation



FOR ILLUSTRATIVE PURPOSES



FOR ILLUSTRATIVE PURPOSES

--- Willets Point Development District

Figure S-10
Proposed Street Network

from adjacent sidewalks or open spaces (with some exceptions, including along parts of Northern Boulevard and the eastern perimeter street, and upper-level parking along 126th Street). The Special District would establish dimensions and design parameters addressing sidewalk width, travel lanes, parking lanes, bicycle lanes, street trees, and other pedestrian amenities. It would also ensure the development of a minimum of eight acres of publicly accessible open space, including a two-acre centrally located park in the residential community with frontage on connector streets.

New bicycle lanes would be required on the connector streets as part of the proposed Plan. In addition, NYCEDC is currently considering additional bikeway and greenway connections between the Flushing Bay Promenade to the north and Flushing Meadows-Corona Park, as well as other areas surrounding the District.

Figures S-11 and S-12 illustrate how the land uses and massing could be distributed across the District. The eventual built configuration of uses will be subject to change based on the results of the environmental review, market factors, and engineering considerations, but would be subject to all Special Willets Point District restrictions and regulations.

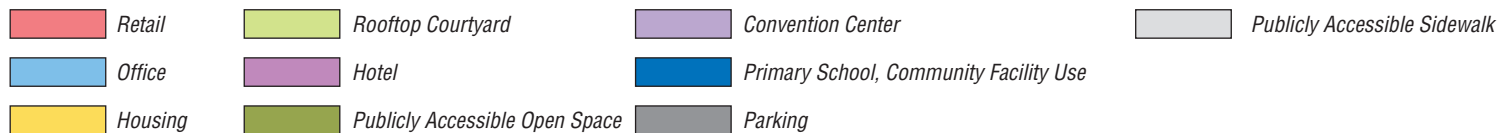
Building Heights

Buildings constructed in the proposed Plan would range in maximum height from approximately 60 feet to 218 feet above ground level. (The maximum height would be no greater than the new Citi Field, which is approved for 218 feet above ground level.) Across most of the District, development is subject to height restrictions established by the Federal Aviation Administration (FAA) and the Port Authority of New York and New Jersey (PANY/NJ), and height limits are determined by the distance from LaGuardia Airport and the area in which the site is located. Points within the District have different maximum heights, as dictated by their distance from the runway. The building height restrictions that apply to the District are also regulated by special controls in Article VI of the New York City Zoning Resolution.

Sustainable Design

Not only would the proposed Plan create a transit-oriented urban infill development that would leverage the District's superior transit and highway infrastructure, it would also encourage the latest innovative building and planning technologies. The proposed Plan represents an opportunity to incorporate integrated sustainable design measures and has been accepted as a pilot Leadership in Energy and Environmental Design for Neighborhood Development (LEED-ND) project by the United States Green Building Council (USGBC). The illustrative site plans (shown in Figures S-11 and S-12) have been designed to achieve LEED-ND certification, and NYCEDC would encourage any future development in the District to achieve LEED-ND certification.

In addition, the proposed school would be built according to the New York City Green Schools Guide, published by the New York City School Construction Authority in March 2007. The New York City Green Schools Rating System contains requirements that are as stringent as those for LEED New Construction (version 2.2), required to obtain a LEED Certified rating.





<div></div> Retail	<div></div> Rooftop Courtyard	<div></div> Convention Center	<div></div> Publicly Accessible Sidewalk
<div></div> Office	<div></div> Hotel	<div></div> Primary School, Community Facility Use	
<div></div> Housing	<div></div> Publicly Accessible Open Space	<div></div> Parking	

Figure S-12
Illustrative Site Plan - Scheme B

B. PROCEDURAL AND ANALYTICAL FRAMEWORK

PUBLIC REVIEW PROCESSES

SEQRA/CEQR

The actions necessary to implement the proposed Plan are subject to environmental review under SEQRA and CEQR. This DGEIS has been prepared in accordance with SEQRA and uses for guidance the *CEQR Technical Manual*, where applicable. The environmental review process allows decision-makers to evaluate the proposed Plan's environmental effects, evaluate reasonable alternatives, and identify measures to mitigate significant adverse impacts. The process also provides the opportunity for the public to comment on the DGEIS. The lead agency for the proposed Plan's environmental review is the City's Office of the Deputy Mayor for Economic Development.

ULURP

Several of the proposed actions are subject to ULURP, which is mandated by Sections 197-c and 197-d of the City Charter. ULURP was enacted to allow public review by the local Community Board, the Borough President, CPC, and—for certain applications—the City Council and Mayor, of certain types of proposed actions, including rezonings and purchase of property of the City.

The ULURP process begins with certification by DCP that the ULURP application is complete. The certified ULURP application must be accompanied by the DGEIS and its Notice of Completion, and marks the commencement of the ULURP process. The application is then referred to the local Community Board, which has up to 60 days to review the proposal, hold a public hearing, and adopt a resolution regarding the proposal. Next, the Borough President has up to 30 days to perform the same steps. CPC then has up to 60 days to approve, disapprove, or approve the application with modifications, and during that time, a ULURP public hearing is held. This hearing is typically in conjunction with the CEQR public hearing on the DGEIS. Following the hearing, CPC may approve, approve with modifications, or deny the application. CPC then forwards the application to the City Council, which has up to 50 days to act on the application. Following the Council's vote, the Mayor has five days in which to approve or veto the Council's action. The City Council may override a mayoral veto within 10 days.

CITY ACQUISITION THROUGH EMINENT DOMAIN

The proposed Plan includes the creation of a URP by HPD. To facilitate implementation of the proposed Plan, the City may acquire property through the use of the eminent domain process. There has been no determination at this time to acquire property by means of eminent domain. Any such acquisition of property would be done in compliance with the provisions of the Eminent Domain Procedure Law.

FRAMEWORK FOR ENVIRONMENTAL ANALYSIS

ANALYSIS APPROACH

For each technical analysis in the DGEIS, the assessment includes a description of existing conditions, an assessment of conditions in the future without the proposed Plan, and an assessment

of conditions with the proposed Plan. It is assumed that the proposed Plan would be constructed starting in late 2009 and would be built out by 2017. Thus, conditions in the future with the proposed Plan are evaluated in comparison with conditions in the future without the proposed Plan for the 2017 analysis year.

Some analyses in this DGEIS use primary and secondary study areas. The primary study area is closest to the District and therefore is most likely to be potentially affected. The primary study area receives the most thorough analysis. The secondary study area is farther away and, with respect to some technical areas, receives less detailed analysis.

This DGEIS assesses the reasonable worst-case impacts that may occur as a result of the proposed Plan. Since the flexibility provided in the URP could result in a variation in the uses included in the maximum development envelope, this DGEIS analyzes two development scenarios: the proposed Plan, which includes an approximately 400,000-square-foot convention center; and the No Convention Center Scenario, in which the convention center is replaced with an additional 350,000 gsf of residential use and 50,000 gsf of retail use (see Table S-1, above).

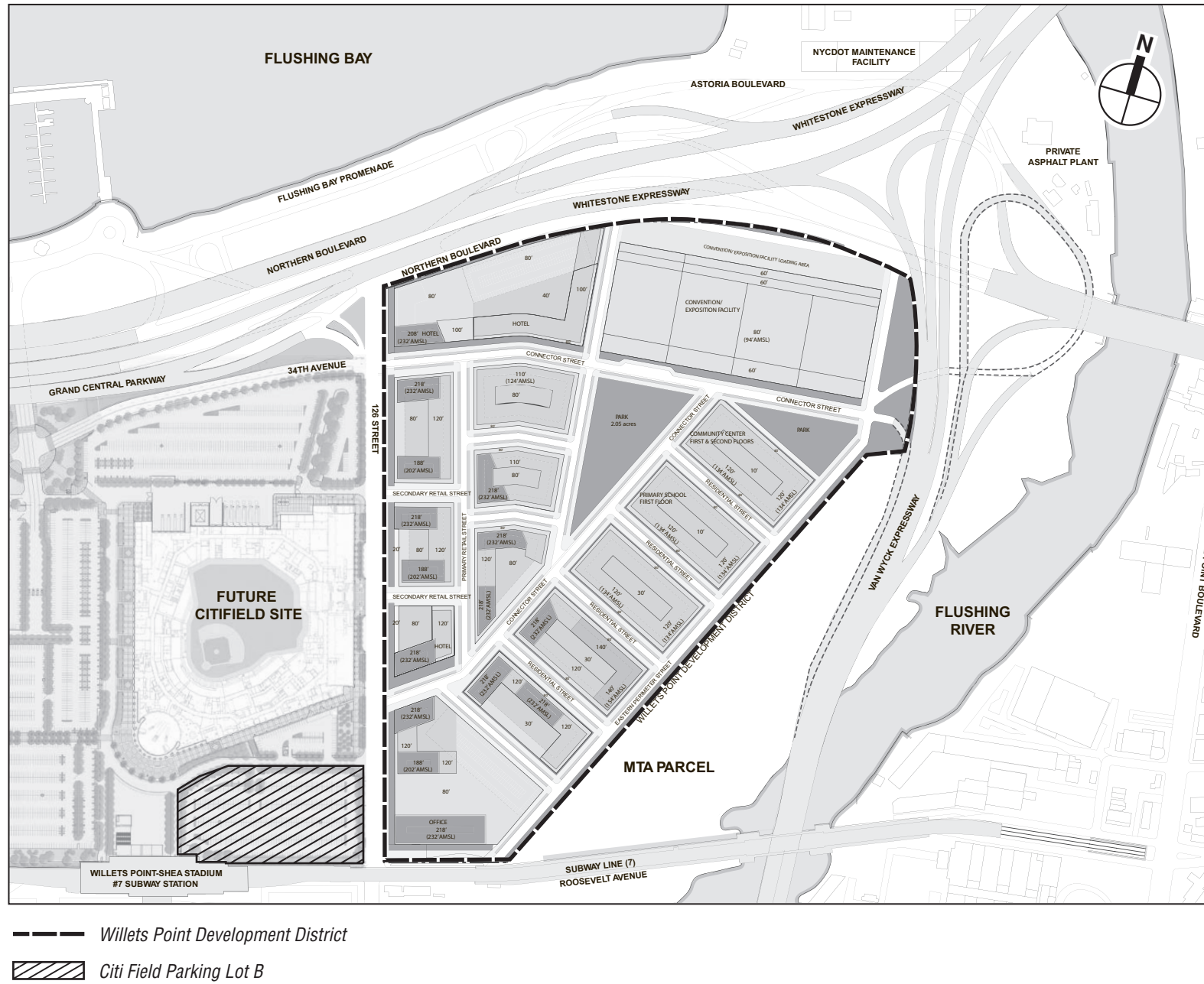
CUMULATIVE IMPACT ANALYSIS—POTENTIAL DEVELOPMENT ON CITI FIELD LOT B

The District is located directly across 126th Street from Citi Field, which is currently under construction (see Figure S-13). Just south of Citi Field will be one of its surface parking areas—Lot B. It is anticipated that if the proposed Plan is approved, additional development could occur on Lot B, including a two-story parking garage and a 14-story office building, surrounded by two stories of retail use. Any program for Lot B would be developed as a collaborative effort between the City and Queens Ballpark Company, LLC (“QBC”)—a development entity for the New York Mets—or an affiliate.

Lot B is currently under the jurisdiction of the New York City Industrial Development Agency (NYCIDA) and under lease to QBC, which in turn has entered into a sublease with the New York Mets. Any future development on Lot B would be undertaken by QBC or an affiliate and would require an amendment to the current lease agreement and discretionary approval by the NYCIDA, acting through the New York City Department of Parks and Recreation (DPR), which administers the NYCIDA lease. These actions would be the subject of a separate environmental review process subject to CEQR.

Lot B could be independently developed with a new office, retail, and parking program and is not dependent upon the Willets Point Development Plan. However, because of the proximity of Lot B to the Willets Point Development District, and because additional commercial development on Lot B could enhance the synergy between the Citi Field premises and the proposed Plan, Lot B’s development would be more likely to occur as a result of the proposed Plan. While each project would require separate actions—each with its own approvals and environmental review processes—together they would add substantial new development to the immediate area. Therefore, in addition to evaluating the proposed Plan’s potential to have environmental impacts, this DGEIS incorporates the cumulative impacts of both the proposed Plan and the potential development on Lot B. The purpose of this analysis is to ensure that the full extent of potentially required mitigation is identified for any significant adverse impacts.

The cumulative projected maximum development for both the Willets Point Development Plan and the Lot B development is a total of 9,404,500 gsf of new development (see Table S-3). For most technical areas in this DGEIS, impacts associated with the Lot B development program are assessed under “Probable Impacts of the Proposed Plan.” Since the development program and precise timing of development for Lot B is unknown, the construction impacts associated with



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Lot B cannot be addressed in this DGEIS. However, given that any future development on Lot B would require separate approval and environmental review processes, these impacts would be examined in greater detail as part of any subsequent environmental review process.

Table S-3
Cumulative Development for Analysis

Use	Lot B Development (gsf)	Proposed Plan (gsf)	Cumulative - Proposed Plan and Lot B (gsf)	No Convention Center Scenario (gsf)	Cumulative - No Convention Center Scenario and Lot B (gsf)
Residential		5,500,000	5,500,000	5,850,000	5,850,000
<i>Number of Units</i>		<i>5,500</i>	<i>5,500</i>	<i>5,850</i>	<i>5,850</i>
Retail	184,500	1,700,000	1,884,500	1,750,000	1,934,500
Office	280,000	500,000	780,000	500,000	780,000
Convention Center		400,000	400,000	0	0
Hotel		560,000	560,000	560,000	560,000
<i>Number of Rooms</i>		<i>700</i>	<i>700</i>	<i>700</i>	<i>700</i>
Community Facility		150,000	150,000	150,000	150,000
School (K-8)		130,000	130,000	130,000	130,000
<i>Number of Seats*</i>		<i>Approx. 850*</i>	<i>Approx. 850*</i>	<i>Approx. 900*</i>	<i>Approx. 900*</i>
Parking	970 spaces	6,700 spaces**	7,670 spaces	6,000 spaces**	6,970 spaces
Publicly-Accessible Open Space		Minimum 8 acres	Minimum 8 acres	Minimum 8 acres	Minimum 8 acres
Total	464,500 gsf	8,940,000 gsf	9,404,500 gsf	8,940,000 gsf	9,404,500 gsf

Notes:

* The capacity of the proposed school would meet the project-generated shortfall in school seats.

** The number of proposed parking spaces would be determined based on expected project-generated demand. Parking floor area is exempt from the gross floor area calculations, per the Special Willets Point zoning district.

C. PROBABLE IMPACTS OF THE PROPOSED PLAN

LAND USE, ZONING, AND PUBLIC POLICY

LAND USE

The proposed Plan would dramatically change land uses in the District by replacing predominantly low-density auto-related and industrial uses with a new mixed-use neighborhood that includes residential, retail, office, hotel, and convention center uses. Additionally, community facilities and open space would support the residential and commercial uses, and improve the quality of life for area residents and visitors.

While the proposed Plan would result in a significant land use change, the effects of this change would not be adverse. The proposed convention center and commercial uses would enhance Flushing and Corona's roles as regional economic centers, and would attract visitors to the area. The proposed Plan would create synergy between the new Citi Field and the proposed District through a pedestrian-oriented regional entertainment and commercial center along 126th Street.

The proposed residential, commercial office, retail, hotel, community facility, open space, and parking uses are prevalent in nearby areas, especially Downtown Flushing, and would be compatible with much of the land use study area.

Although some of the uses proposed for the District would not be compatible with the industrial activities permitted on the adjacent MTA property, the placement of high-density mixed-use or residential districts next to heavy manufacturing districts is not uncommon in the City, and would not constitute a significant adverse impact. The proposed Plan would also not be consistent with the industrial uses located along the waterfront to the north and east of the District. However, these uses are separated from the District by the Whitestone Expressway and Northern Boulevard, as well as the Flushing River. Furthermore, as a result of ongoing development trends, it is expected that some of these properties would be redeveloped even without the proposed Plan. New development would likely include higher-density residential and commercial uses and waterfront access, which would be compatible with land uses under the proposed Plan.

If the proposed Plan is approved and the District is redeveloped into a new mixed-use community and regional destination, it is likely that this could generate increased demand for additional development on nearby Lot B. Based on existing land use patterns and zoning regulations in the surrounding area, it is unlikely that the proposed Plan and development on Lot B would alter land use patterns in the primary study area. Given the recent trend to redevelop underutilized sites near the Flushing River waterfront, it is possible that the proposed Plan and new development on Lot B could encourage further redevelopment of some nearby underutilized sites along the Flushing River. Such a change would not constitute an adverse impact on land uses in the study area because the potential new uses (including primarily residential, retail, and other commercial uses) would reflect a continuation of an existing trend, would be compatible with other uses in the area, and would conform to existing zoning and public land use policies. Overall, the proposed Plan would not result in significant adverse land use impacts.

Zoning and Public Policy

As described above, the proposed Plan would result in a change to the underlying zoning of the District from an existing M3-1 district (and a small area zoned R3-2) to a C4-4 district, and would include the creation of a zoning Special District. As part of the proposed Plan, HPD would also create a URP to define District boundaries and the area to be redeveloped in accordance with the City's redevelopment goals.

The proposed C4-4 is consistent with the zoning that exists throughout much of the Downtown Flushing area. Some of the uses permitted in the proposed C4-4 district (such as residential and community facility uses) would not be compatible with the M3-1 zoning of the adjacent MTA property. However, as described above, it is not uncommon for new higher-density residential and commercial districts to be located next to older heavy manufacturing districts near the waterfront. The other M3-1 districts located on the Willets Point peninsula are separated from the District by the Whitestone Expressway and Northern Boulevard.

The presence of a denser mixed-use development in the District could possibly generate further redevelopment of nearby underutilized sites along the eastern bank of the Flushing River, which were rezoned to C4-2 to allow denser mixed-use development. However, redevelopment in this area is already under way, and is expected to conform to existing zoning and public policies. No significant adverse zoning impacts would result from the proposed Plan.

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In terms of public policy, the proposed Plan represents a critical step in implementing the Downtown Flushing Development Framework and would advance a number of the Framework's fundamental goals, including: the creation of a regional destination that would enhance economic growth in Downtown Flushing; improvement of environmental conditions; and integration of new development in the District with surrounding amenities, including the Flushing Bay Promenade, the new Citi Field, Flushing Meadows-Corona Park, and Downtown Flushing.

The proposed Plan would be consistent with and vital to the advancement of several of the goals of PlaNYC, which aims to create a more sustainable New York by the year 2030. The proposed Plan would also be consistent with the coastal policies set forth in the New York City Waterfront Revitalization Program. Overall, the proposed Plan is not expected to result in significant adverse impacts on land use, zoning, and public policy.

NO CONVENTION CENTER SCENARIO

As with the proposed Plan, the No Convention Center Scenario would change the development potential of the District in a manner consistent with the proposed URP and Special Willets Point District. The effects of the No Convention Center Scenario on land use conditions would be largely the same as with the proposed Plan. As with the proposed Plan, the No Convention Center Scenario would not have significant adverse land use or zoning impacts.

With respect to public policy, the No Convention Center Scenario, like the proposed Plan, would advance several of the Downtown Flushing Development Framework's fundamental goals, including improvement of environmental conditions, integration of new development in the District with surrounding amenities, and the provision of housing affordable to a mix of incomes. Although this scenario does not include a convention center, the primary regional attraction in the No Convention Center Scenario would be the pedestrian-oriented entertainment and commercial center, which would create a synergy between the new Citi Field and the proposed District, and attract and retain visitors to the area. Overall, the No Convention Center Scenario would not result in significant adverse impacts on land use, zoning, or public policy.

SOCIOECONOMIC CONDITIONS

Development resulting from the proposed Plan would generate substantial economic benefits for New York City and New York State and would not cause any significant adverse impacts related to direct residential displacement, indirect residential displacement, direct business and institutional displacement, indirect business and institutional displacement, or effects on specific industries.

DIRECT RESIDENTIAL DISPLACEMENT

The one residential unit (one household) in the District would be displaced under both the proposed Plan and the No Convention Center Scenario. The displacement of one household would not have the potential to result in significant adverse impacts due to direct residential displacement. Should the proposed Plan be approved, this household would be provided with relocation assistance.

INDIRECT RESIDENTIAL DISPLACEMENT

The proposed Plan would not result in significant adverse impacts due to indirect residential displacement. It would introduce 5,500 new residential units, or an estimated 14,795 new residents, to the study area. Under the No Convention Center Scenario, 5,850 units, or an estimated 15,737 residents, would be introduced to the study area. Either scenario would represent a substantial addition to the study area population, and compared with the existing study area population, the population that would be introduced by the proposed Plan could include a larger proportion of households at higher incomes.

A detailed analysis of indirect residential displacement determined that the study area contains an estimated 2,134 households (approximately 5,726 residents) in eight Census tracts (381, 853, 865, 867, 871, 875, 889.02, and 907) that are considered to be “at risk” of indirect residential displacement if their rents were to increase. However, there are a number of reasons why indirect residential displacement of the population identified as at risk would not actually take place in the future as a result of the proposed Plan. First, the District is geographically separated from the identified at-risk population, limiting its potential to influence residential trends in those areas. Planned residential developments located between the District and the identified at-risk population (i.e., Flushing Commons and Sky View Parc) are likely to have a greater influence on residential market trends in those tracts than the proposed Plan. Second, by adding new housing units, the proposed Plan could serve to relieve rather than increase market pressure in the study area. Third, the proposed Plan and the No Convention Center Scenario would introduce 1,100 and 1,170 affordable housing units, respectively, to the study area. Although the population that would be introduced by the proposed Plan may include a larger proportion of households at higher incomes as compared with the existing study area population, the proposed Plan’s affordable housing component would ensure that a substantial portion of the new population would have incomes that would more closely reflect existing incomes in the study area.

DIRECT BUSINESS AND INSTITUTIONAL DISPLACEMENT

The proposed Plan would not result in significant adverse impacts due to direct business and institutional displacement. Under either scenario (with or without the convention center), the proposed Plan would directly displace approximately 260 businesses and institutions (approximately 1,711 employees) that provide a variety of products and services within numerous economic sectors, including manufacturing, wholesale trade, retail trade, transportation and warehousing, accommodation and food services, and repair and maintenance. The majority of businesses that would be displaced (88 percent, or 228 of 260 businesses) are in auto-related sectors. Other industries with a notable presence include food wholesalers and waste transfer facilities.

The businesses and institutions that would be displaced were determined not to be of substantial economic value to the region or City as defined under CEQR. The District’s businesses are not unique; similar services and products are provided throughout Queens, the City, and the region. In addition, the vast majority of these businesses and institutions would be able to relocate to other properties within Queens or the City. Although rental costs would likely increase—as a result of the significantly lower rents currently paid in the District compared with other manufacturing areas, and a competitive industrial real estate market citywide—most of these businesses would remain viable elsewhere.

Although the proposed Plan and the resulting business and institutional displacement would alter the neighborhood character within the District, this change in neighborhood character is one of

the key goals of the proposed Plan and would not substantially alter the neighborhood character of the study area as a whole. The economic sectors with the highest employment in the study area (those which define the character of the area in an economic sense) are not found within the District. In fact, the new uses resulting from the proposed Plan would be comparable to those in the surrounding study area.

Should the proposed Plan be approved, businesses currently located in the District would be offered a relocation package by NYCEDC, which would include financial coverage for certain moving costs, re-establishment fees, and use of brokerage services to find alternative locations. NYCEDC is currently working with owner-occupied businesses in the District to identify viable relocation properties within New York City. In addition, the City is in the process of developing a Workforce Assistance Plan for District workers who would be displaced by the proposed Plan. The program would provide displaced workers with services such as job training and job placement services, English as a Second Language (ESL) and General Educational Development (GED) coursework, and additional social services.

INDIRECT BUSINESS AND INSTITUTIONAL DISPLACEMENT

The proposed Plan would not result in significant indirect business and institutional displacement impacts due to increased rents under either scenario (with or without the convention center). While the introduction of new residents, workers, and visitors to the District would alter existing economic patterns within the District, these changes would not lead to substantial indirect business displacement within the broader study area. Existing local retail establishments in the study area would continue to be more convenient to study area residents outside of the District, while the proposed Plan's residents and visitors—especially convention center and hotel visitors—would shop and dine primarily at retail establishments in the District. The proposed Plan would therefore not result in substantial changes in demand for goods and services that would alter economic conditions in the broader study area. The proposed Plan would represent a continuation of existing trends toward the development of retail, office, hotel, and residential uses in the study area, rather than the introduction of a new trend that would change existing economic patterns in the study area.

A detailed analysis was undertaken to assess whether the proposed Plan could affect neighborhood character by affecting the viability of neighborhood shopping areas through competition, thereby becoming an environmental concern. The District is expected to draw a large portion of its repeat business as a result of more convenient access, shorter travel time and distance, and shoppers' propensity to take advantage of a major shopping resource close to home. The competition analysis assesses capture rates within the Primary and 1½-Mile Trade Areas to determine potential effects due to competition. A capture rate is a measure that compares expected spending by consumers in a trade area (retail demand) with the volume of retail sales in the trade area.

The analysis finds that the proposed Plan would not substantially raise retail capture rates within the Primary Trade Area and, therefore, would not have the potential to adversely affect competitive stores in the Primary Trade Area. The analysis concludes that within the Primary Trade Area, the proposed Plan would increase the capture rate by 12 percent overall, and that all retail categories except building materials and garden supplies (which has a capture rate in excess of 100 percent even under existing conditions since sales figures include sales to contractors as well as individual households) would remain within the 70 to 80 percent capture rate range characteristic of trade areas that are satisfying the retail demand of trade area

households. Given that the proposed Plan would not substantially raise retail capture rates within the Primary Trade Area, and that capture rates in the future with the proposed Plan would be influenced by the presence of several large new projects in the Primary Trade Area (notably, Sky View Parc and Rego Park Mall) that due to their scale and mix of retail offerings would draw from areas not included within the Primary Trade Area, the proposed Plan would not have the potential to significantly affect competitive stores in the Primary Trade Area.

Within the 1½-Mile Trade Area, the analysis focuses on grocery stores in particular, because grocery stores often serve as anchors for local retail concentrations, and it is assumed that the proposed Plan could include retailers (such as a supermarket or wholesale club) whose product offerings substantially overlap with typical grocery store offerings. The analysis concludes that local residents would continue to shop at existing grocery stores for their convenience, specialized goods and services familiar to their ethnic communities, and public transit accessibility. Although a potential supermarket or wholesale club in the District could compete with nearby supermarkets and grocery stores within the 1½-Mile Trade Area, it is not expected to have a substantial negative effect on nearby grocery stores, nor would it jeopardize the viability of any retail strips in the study area.

Therefore, the amount of indirect business displacement due to competition from the proposed Plan would be minimal, is not expected to jeopardize the viability of any neighborhood retail strips, and is not expected to diminish the level of services provided. Therefore, the proposed Plan would not result in significant adverse impacts due to competition.

EFFECTS ON SPECIFIC INDUSTRIES

The proposed Plan would not result in significant adverse impacts on any specific industry under either scenario (with or without the convention center). Although a large concentration of auto-related uses (228 businesses) would be displaced from the District, these displaced businesses and their associated employment would not significantly impact the industry as a whole. The potentially displaced businesses and employment represent less than 5 percent of citywide employment within the auto-related sectors, and the businesses could relocate within the City, potentially in other auto-related clusters, thereby maintaining existing business and employment counts within the industry. Additionally, with 3,642 auto-related businesses within New York City, auto-related goods and services are available elsewhere. Therefore, the potential displacement of these uses from the District would not jeopardize the viability of any industries that rely on those services.

ECONOMIC AND FISCAL BENEFITS AND PUBLIC COSTS

Construction period impacts would include the displacement of the existing economic activity from the site and the construction activity associated with developing the proposed Plan or the No Convention Center Scenario.

Existing Economic Activity to Be Displaced

In the future with the proposed Plan, although existing businesses would be displaced from the site, this economic activity would continue within the City to the extent that those businesses are relocated here. The proposed Plan would directly displace approximately 1,711 employees. The total employment associated with the economic activity on the site, including off-site jobs generated from the on-site activity, is estimated to equal 2,538 permanent jobs within New York City and a total of 2,981 jobs in New York State. The direct wages and salaries from the annual

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operation of the existing activity on the site are estimated at \$70.93 million (all amounts in 2007 dollars). Total direct and generated wages and salaries resulting from the annual operation of the existing economic activity on the site are estimated at \$106.98 million in New York City and a total of \$125.62 million in New York State.

The direct effect on the local economy from the operation of the existing economic activity on the site, measured as economic output or demand, is estimated at approximately \$352.07 million annually. The total economic activity, including indirect expenditures (those generated by the direct expenditures), that result from the operation of the existing activity on the site is estimated at \$675.01 million annually in New York State, of which \$556.30 million annually occurs in New York City. The annual operation of the existing activity on the site has tax revenues associated with it, including property tax-related revenues and non-property-tax revenues. The operation of the existing activity on the site is estimated to generate approximately \$25.11 million annually in non-property-related tax revenues for New York City, MTA, and New York State. In addition, in fiscal year 2007/2008, the City is estimated to receive property tax revenues from the existing development on the site equal to approximately \$2.49 million.

Employment and Economic Benefits from Construction Activity

The development of either the proposed Plan or the No Convention Center Scenario would result in the substantial investment of funds into the area. The direct employment from construction activity is estimated at about 17,017 person-years of employment for the No Convention Center Scenario or 17,561 person-years of employment for the proposed Plan. (A person-year is the equivalent of one employee working full-time for one year.) Total direct and generated employment from construction activity is estimated at 25,883 to 26,736 person-years in New York City and 32,157 to 33,199 in the larger New York State economy, with the first figure in each case for the No Convention Center Scenario and the second for the proposed Plan.

The direct wages and salaries during the construction period are estimated at \$1.13 to \$1.17 billion. Total direct and generated wages and salaries resulting from construction activity are estimated at \$1.67 to \$1.73 billion in New York City and \$2.04 to \$2.11 billion in the broader New York State economy. The total effect on the local economy from construction activity, measured as economic output or demand, is estimated at \$6.94 to \$7.20 billion in New York State, of which \$5.30 to \$5.50 billion would occur in New York City. In total, the construction activity is estimated to generate approximately \$345.87 to \$352.94 million in tax revenues for New York City, MTA (which collects a 0.25 percent sales tax and tax surcharges on business and utility taxes within the City and MTA 12-county region), and New York State, including about \$220.88 to \$226.10 million for New York State and MTA, and about \$124.99 to \$126.84 million for New York City. In addition, New York City would receive mortgage recording fees both from the developers and from the owners of the condominium portion of the residential property, and the City would receive real-property-related revenues (i.e., real estate tax payments) during the development period.

Employment and Economic Benefits from Annual Operation

The completion and annual operation of either scenario would have associated with it permanent employment, wages and salaries, other effects on the local economy, and tax revenues for New York City, MTA, and New York State. The direct on-site employment in the completed development is estimated at approximately 7,220 to 7,251 permanent jobs (with, again, the first number corresponding to the No Convention Center Scenario and the second to the proposed Plan). This employment would represent an increase of 5,388 to 5,419 over the area's existing

employment of 1,711. Total direct and generated jobs from the annual operation of the completed development are estimated at 10,691 to 11,843 jobs within New York City and 12,340 to 13,526 jobs in New York State.

The direct on-site wages and salaries from the operation of the completed development are estimated at \$313.02 to \$317.69 million annually (all figures in 2007 dollars). Total direct and generated wages and salaries are estimated at \$472.41 to \$510.36 million in New York City and \$547.13 to \$588.88 million in New York State. The direct on-site effect on the local economy from the completed development, measured as economic output or demand, is estimated at approximately \$1.18 to \$1.30 billion annually. The total economic activity, including indirect expenditures (those generated by the direct expenditures), that would result from the operation of the completed development is estimated at \$2.21 to \$2.49 billion in New York State, of which \$1.90 to \$2.17 billion would occur in New York City.

The operation of the completed development is estimated to generate approximately \$134.75 to \$144.62 million annually in non-property-related tax revenues for New York City, MTA, and New York State, including approximately \$77.03 to \$82.24 million for New York State and MTA, and about \$57.72 to \$62.38 million for New York City. For either scenario, the above non-property-related tax receipts do not include income tax paid by the residents of the residential portion of the Plan or income tax from secondary employment generated by such residents. Such revenue would be additional. In addition, the City would receive annual property tax revenues. These revenues would be expected to be changing from year to year, and in any year would be based on the taxable assessed value and the applicable tax rate.

Public Sector Costs

The developer of the proposed Plan would fund all site preparation, infrastructure improvements, and construction within the District. It is anticipated that the City would fund off-site improvements that are necessary to support the proposed Plan, including new ramps to and from the Van Wyck Expressway. Costs associated with these off-site improvements are preliminarily estimated at between \$150 and \$200 million.

COMMUNITY FACILITIES AND SERVICES

Neither the proposed Plan nor the No Convention Center Scenario would directly displace any existing community facilities or police or fire facilities.

SCHOOLS

The proposed Plan would be located within Zone 2 of Community School District 25 (CSD 25).

The analysis of high schools considers the impact on the entire Borough of Queens. The assessment finds that neither the proposed Plan nor the No Convention Center Scenario would have a significant adverse impact on elementary or middle schools within the one-mile study area or within Zone 2 of CSD 25 in the analysis year of 2017, or high schools in Queens.

Proposed Plan

The proposed Plan would introduce approximately 5,500 residential units to Zone 2 of CSD 25, with 20 percent of the units anticipated to be set aside for low- to moderate-income households. Based on the projected public school pupil ratios from Table 3C-2 in the *CEQR Technical*

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Manual, the proposed Plan would generate approximately 858 elementary and 418 intermediate students within Zone 2 of CSD 25 by 2017.

The proposed Plan would include the development of a new public school that would alleviate the potential elementary school seat shortfall created by the Plan. In the future with the proposed Plan, an approximately 850-seat school would be constructed to alleviate the elementary school shortfall. With the inclusion of an approximately 850-seat school, elementary schools within the one-mile study area would operate at 103 percent capacity, with a shortfall of approximately 90 seats, which would exist in the future without the proposed Plan. With the 850-seat school, Zone 2 schools would have capacity for 6,442 students and elementary schools within Zone 2 would operate at 102 percent capacity, with a shortfall of approximately 151 seats, which would exist in the future without the proposed Plan. Elementary schools within CSD 25 as a whole would operate at 94 percent of capacity, with a total enrollment of 17,699 elementary students and 1,180 available seats. Therefore, in the future with the proposed Plan the utilization rate in each study area would not change from the future without the proposed Plan. The *CEQR Technical Manual* considers an increase in utilization rate above 5 percent as a significant adverse impact. Therefore, the proposed Plan would not result in any significant adverse impacts on public elementary schools within the one-mile study area, Zone 2, or within CSD 25.

These new project-generated intermediate school students would increase enrollment in the one-mile study area to 1,482 students and in Zone 2 to 2,050 students. Schools within the one-mile study area would operate at 102 percent of capacity, with a deficit of 23 seats. Schools in Zone 2 of CSD 25 would operate at 81 percent of capacity with a surplus of 468 seats. Intermediate school enrollment within CSD 25 would increase to 4,586 by 2017 and would operate at 59 percent of capacity, with a surplus of 3,164 seats. Therefore, the middle schools within Zone 2 and throughout CSD 25 would operate below capacity, and increased enrollment attributable to the proposed Plan would not be expected to result in significant adverse impacts on public intermediate schools. While the utilization rate within the one-mile study area would increase by approximately 38 percent, the one-mile study area would have a shortfall of only 23 seats. This shortfall could be easily be accommodated by the significant surplus of school seats available in both Zone 2 and throughout CSD 25. Therefore, the proposed Plan would not result in any significant adverse impacts on public intermediate schools within the one-mile study area.

No Convention Center Scenario

The No Convention Center scenario would introduce approximately 5,850 residential units to Zone 2 of CSD 25, with 20 percent of the units anticipated to be set aside for low- to moderate-income households. The No Convention Center Scenario would generate approximately 913 elementary and 445 intermediate students.

As with the proposed Plan, the No Convention Center Scenario would include a new K-8 public school that would alleviate the potential project-generated elementary school shortfall. Under this development scenario, an approximately 900-seat school would be provided. The approximately 913 elementary school students generated by the No Convention Center Scenario would cause school enrollment within the one-mile study area to increase to 3,505 students, while enrollment within Zone 2 of CSD 25 would increase to 6,648 students. With the inclusion of the approximately 900-seat school within the District, elementary schools within the one-mile study area would have an operating capacity of 103 percent and the zone would have an operating capacity of 102 percent, with approximately 95 and 156 seat deficits, respectively, which would exist in the future without the proposed Plan. Elementary schools within CSD 25 as a whole would operate at 94 percent of capacity. Therefore, the elementary school utilization

rate for both study areas would not increase from the future without the proposed scenario conditions. Finally, elementary schools within the entire CSD 25 would operate at 94 percent capacity with 1,175 seats. Therefore, the No Convention Center Scenario would not result in any significant adverse impacts on public elementary schools within Zone 2 or within CSD 25.

Intermediate/Middle Schools

The No Convention Center Scenario would introduce approximately 445 intermediate students in the one-mile study area and in Zone 2 of CSD 25. The additional students would increase enrollment within the one-mile study area to 1,509 students. M.S. 237—the only school located in close proximity to the one-mile study area—would operate at 103 percent with a shortage of 50 seats.

With the additional students introduced by the No Convention Center Scenario, 2,076 intermediate school students would be enrolled in Zone 2 of CSD 25, which would operate at 82 percent of capacity with a surplus of 442 seats. Intermediate school enrollment within CSD 25 would increase to 4,618 and would operate at 60 percent of capacity, with a surplus of 3,138 seats. Therefore, the middle schools within Zone 2 and throughout CSD 25 would operate below capacity, and increased enrollment attributable to the No Convention Center Scenario would not be expected to result in significant adverse impacts on public intermediate schools. While the utilization rate within the one-mile study area would increase by approximately 41 percent, the one-mile study area would have a shortfall of only 50 seats. This shortfall could be easily be accommodated by the significant surplus of school seats available in both Zone 2 and throughout CSD 25. Therefore, the No Convention Center Scenario would not result in any significant adverse impacts on public intermediate schools within the one-mile study area.

LIBRARY AND HEALTH CARE FACILITIES

The analysis considered the proposed Plan's impact on Flushing Library, the only library within a ¾-mile radius of the District. No significant adverse impacts are anticipated in the study area in 2017 as a result of the proposed Plan or the No Convention Center Scenario. The analysis also considered the proposed Plan's impacts on Flushing Hospital Medical Center and the New York Hospital Medical Center of Queens, which are both located in close proximity to the study area. No significant adverse impacts on area hospitals are anticipated in the study area in 2017 as a result of the proposed Plan or the No Convention Center Scenario.

DAY CARE FACILITIES

While the assessment found that the proposed Plan for the District would not result in significant adverse impacts on public schools, libraries, or health care facilities, it could result in a significant adverse impact on the availability of day care services within a one-mile radius of the District. To mitigate the potential impact on day care facilities, NYCEDC would require, as part of the developer's agreement, that a future developer consult with the New York City Administration for Children's Services (ACS) to determine the appropriate way to meet demand for publicly funded day care services generated by low- to moderate-income housing development in the District.

OPEN SPACE

Neither the proposed Plan nor the No Convention Center Scenario is expected to result in significant adverse open space impacts.

The proposed Plan would create a minimum of eight acres of publicly accessible open space. In the future with the proposed Plan, the area surrounding the District would continue to have adequate active and passive open space resources. Although open space ratios would decline, for the most part the open space ratios would exceed existing City guidelines. Only the active open space ratio per 1,000 residents and the passive open space ratio per 1,000 workers would be below the recommended ratio; the total open space ratios would be well above City goals. The open space ratios indicate that workers and residents would have adequate open space to meet their needs in the future with either the proposed Plan or the No Convention Center Scenario. Furthermore, these quantitative analyses do not consider the extensive open space resources just beyond the study area boundaries, particularly the numerous active recreational amenities in the remaining portions of Flushing Meadows-Corona Park. Based on the open space analysis presented in this chapter, neither the proposed Plan nor the No Convention Center Scenario is expected to result in significant adverse impacts on study area open spaces.

SHADOWS

The shadows analysis concludes that while some incremental shadow would be cast onto Flushing Bay, the Flushing Bay Promenade, and the Flushing River in some seasons, none of these resources would receive incremental shadow on all four analysis days. Furthermore, throughout the spring, summer, and fall seasons, incremental shadow would be limited to an hour or less on any given resource and would cover relatively small areas. In the winter, when shadows are longest, over two hours of project-generated shadow would be cast on Flushing Bay and the Flushing Bay Promenade in the morning, but large areas of these resources would remain free of incremental shadow during these times, and would receive sunlight for the remainder of the analysis day. Therefore, there would be no significant adverse shadow impacts as a result of either the proposed Plan or the No Convention Center Scenario.

A shadows screening analysis was performed, and concluded that the potential development in Lot B would not cause a significant adverse impact on any sun-sensitive resources.

HISTORIC RESOURCES

Both the New York City Landmarks Preservation Commission (LPC) and the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) have determined that the District is not sensitive for archaeological resources. Therefore, neither the proposed Plan nor the No Convention Center Scenario has the potential to affect archaeological resources.

The former Empire Millwork Corporation Building—located within the boundaries of the District—was found by OPRHP to be eligible for listing on the State and National Registers of Historic Places (S/NR). Demolition of this building under the proposed Plan or the No Convention Center Scenario would therefore constitute a significant adverse impact on architectural resources.

One of the key aspects of the Special District regulations and the URP is to allow for flexibility of uses and building locations within the District; retaining the former Empire Millwork Corporation Building would limit this flexibility. Keeping the building would also be challenging from a site grading and engineering perspective, since the proposed Plan seeks to raise the elevation of the District above the FEMA 100-year floodplain. If this site were not raised, it would be significantly more vulnerable to flooding, because it would remain below the 100-year floodplain level and because the surrounding topography would be raised, directing water run-off into lower areas. Raising the grade in a majority of the District while maintaining

the existing grade on the former Empire Millwork Corporation Building site would require special engineering measures to protect the building during site preparation and construction to prevent future flooding on the site, and to visually and functionally integrate the building with the rest of the District despite the differences in grade.

Demolition of the former Empire Millwork Corporation building would constitute a significant adverse impact on historic resources. Measures to mitigate this impact would be developed in consultation with OPRHP. These measures could include recording the building through a Historic American Buildings Survey (HABS)-level photographic documentation and accompanying narrative.

There are no architectural resources located on Lot B, and the site was determined not sensitive for archaeological resources during the environmental review process for the Citi Field project. Therefore, any development on Lot B would not affect archaeological or architectural resources.

URBAN DESIGN AND VISUAL RESOURCES

Both the proposed Plan and the No Convention Center Scenario would dramatically alter and greatly improve the urban design and general appearance of the District. The site is currently underdeveloped with low-scale buildings primarily related to automotive repair, as well as larger industrial buildings. The proposed Plan and the No Convention Center Scenario would result in new buildings of various heights, and introduce active uses that would increase the vitality of the District and increase pedestrian traffic to the District and the surrounding area. The appearance of the District would also be improved by providing new streets and streetscape elements. The District and surrounding area would be integrated by creating a new pedestrian-scaled street network and adding new publicly accessible open spaces. A new street pattern and new block forms would be established in the District.

Overall, the District would be transformed into a mixed-use area with retail, entertainment, and restaurant uses, and by creating a pedestrian-friendly environment that would complement the proposed residential area. The proposed Plan would significantly alter the urban design of the District, and would ultimately have a beneficial impact on the overall appearance and feel of the District.

In terms of visual resources, neither the proposed Plan nor the No Convention Center Scenario would have a significant adverse impact on visual resources, including Flushing Bay, the Flushing Bay Promenade, Flushing Meadows-Corona Park, and the 1964 World's Fair structures.

NEIGHBORHOOD CHARACTER

The proposed Plan would dramatically change neighborhood character in the District. The new, active mix of residential, retail/entertainment, office, open space, hotel and conference center, and community facility uses would be an improvement over conditions in the future without the proposed Plan. Development within the District would be scaled to enhance pedestrian activity, with prescribed streetwall heights and locations, mandatory pedestrian circulation space, and other design elements to enhance building façades. The Special District would also mandate the provision of street trees, adequate sidewalks, and planted medians, and the development of a minimum of eight acres of publicly accessible open space. The proposed Plan would also include environmental remediation, grading and elevating the District above the floodplain, the

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installation of new sanitary and storm sewer lines, and the creation of a new connection to the Van Wyck Expressway.

The proposed convention center and commercial uses would enhance Flushing and Corona's roles as regional economic centers, and would attract visitors to the area. The proposed residential, commercial office, retail, hotel, community facility, open space, and parking uses would be consistent with the uses and character in the surrounding area, particularly those within the dense commercial center of Downtown Flushing. Additionally, the site planning and urban design of the District would serve to integrate the District with surrounding entertainment and recreational uses.

Although the proposed residential and community facility uses would not be compatible with industrial uses on the adjacent MTA property, it is not uncommon to find this type of juxtaposition in older manufacturing districts near the waterfront. Traffic, transit, pedestrian, and noise conditions would be adversely affected by the proposed Plan, but not (particularly with the mitigation measures proposed) to the degree that neighborhood character would experience significant adverse impacts.

Overall, the proposed Plan and Lot B, while significant, would result in an improvement in neighborhood character and would not have a significant adverse impact.

The effects of the No Convention Center Scenario on neighborhood character would be largely the same as with the proposed Plan; overall, it would not result in significant adverse neighborhood character impacts.

NATURAL RESOURCES

Neither the proposed Plan nor the No Convention Center Scenario would result in significant adverse impacts on terrestrial natural resources, wetlands, aquatic resources, endangered species, threatened species, or species of special concern. In fact, development would offer benefits to natural resources (such as improved habitat) and is expected to include sustainable design elements.

HAZARDOUS MATERIALS

The District has a long history of industrial, automotive, manufacturing, and commercial uses. Evidence of contaminants on this site includes volatile and semivolatile organic compounds, polychlorinated biphenyls (PCBs), heavy metals, pesticides, herbicides and rodenticides. Throughout the District, asbestos-containing materials, lead-based paint, and PCB-containing equipment are likely to be present inside buildings. In addition, soil and groundwater have been impacted in varying degrees, possibly resulting in vapor intrusion issues within the buildings.

Development within the District under the proposed Plan would involve the demolition of the existing structures, roadways, and specific existing above- and below-ground utilities; and excavation, disturbance, and removal of much of the existing fill and soil.

By implementing remediation measures (such as removal and/or capping of contaminated soils), performing work under appropriate health and safety procedures, and engineering/institutional controls (such as installing vapor barriers under new buildings and restrictions on change in use), it is expected that potential exposure to hazardous materials would be minimized, and thus no significant adverse impacts related to hazardous materials would occur during or after construction of the proposed Plan or the No Convention Center Scenario. E-designations and

subsequent Restrictive Declarations would be placed on the District that would incorporate these engineering and institutional controls. All remedial plans would be required to be in accordance with all applicable City, State, and federal regulations.

Although some hazardous materials would likely remain in the subsurface following construction of the proposed Plan and development of Lot B, with the remedial measures for both the District and Lot B, there would be no exposure pathways and thus no further potential for significant adverse impacts.

WATERFRONT REVITALIZATION PROGRAM (WRP)

Both the proposed Plan and the No Convention Center Scenario would be consistent with citywide policies for fostering residential and commercial development, creating public access in the coastal zone, and protecting sensitive natural and historic resources. Thus, the proposed Plan would be consistent with the City's 10 WRP policies and standards.

INFRASTRUCTURE

Although the proposed Plan would generate new demand on infrastructure, the municipal systems serving the District and surrounding area, as enhanced under the proposed Plan, would have adequate capacity to meet the needs of the proposed Plan and Lot B.

WATER SUPPLY

The proposed Plan and anticipated development on Lot B would increase water demand by approximately 4.36 million gallons of water per day (mgd). This additional demand would not result in a significant adverse impact on the City's water supply system. This projected flow would be supplied by the existing 72-inch water main serving the District, which may need to be relocated as a result of the proposed Plan, depending on the site plan that is ultimately selected.

Under the proposed Plan, the existing 72-inch prestressed reinforced concrete pipe (PRCP) water main within Willets Point Boulevard could be relocated to a private roadway that runs along the eastern boundary of the development District. The two existing booster pump stations would be rehabilitated and modified to bring the system into compliance with existing codes and regulations as a result of the proposed Plan. In order to provide acceptable access to the new main once it is constructed, the developer would provide a 40-foot mapped permanent easement along the new alignment, designated in accordance with DEP requirements.

SANITARY SEWAGE

Under the proposed Plan, the District would be connected to the City's sanitary sewer system, replacing the current reliance on septic tanks. Sanitary wastewater from the District would be conveyed to a new private sanitary pump station, which would most likely be constructed within the District. Sanitary wastewater from Lot B would be connected to the pumped discharge utilized by Citi Field. The new pump station would be designed and constructed to DEP standards. A new force main would be constructed to convey sanitary flow from the District to the existing 96-inch-diameter City sewer at 108th Street (which flows to the Bowery Bay WPCP). This new force main route would cross beneath 126th Street and the Grand Central Parkway.

The proposed Plan and the anticipated development on Lot B would result in an increase of sanitary flow to the Bowery Bay WPCP of approximately 2.8 mgd. The projected available

capacity at the Bowery Bay WPCP in 2017 is 28 mgd. The Bowery Bay WPCP has adequate capacity to meet the increased demand.

STORMWATER

Prior to redevelopment of the site, an amended drainage plan would be prepared to comprehensively address all the surface runoff and separate handling of the sanitary dry flow that would be generated as a result of the proposed Plan, and drainage features to be included in the development of the District. This drainage plan would accommodate the City's current drainage plan for the area, and easements associated with highway drainage.

The proposed Plan would maintain separate stormwater and sanitary sewer systems, in accordance with the City's goals to reduce combined sewer overflow (CSO) events. Since the District and Lot B are currently largely covered with impervious surfaces, redevelopment would not significantly change the overall runoff conditions within the area. The overall stormwater runoff volume in the future with the proposed Plan would therefore remain largely unchanged from the current runoff. Stormwater generated within the District is currently directed to the two existing outfalls on 126th Street and 127th Street, which are insufficiently sized to accommodate the runoff being generated, resulting in uncontrolled and untreated runoff and street flooding during storm events. To eliminate these stormwater management issues, the proposed Plan would require the construction of a new stormwater conveyance system, including piping, sustainable design features, and an adequately sized detention tank, or other equivalent means. With the implementation of adequate stormwater management features, stormwater flow could be controlled to remain within the capacity of the two existing outfalls without the need to modify these outfalls.

The proposed Plan would require coverage under the current State Pollutant Discharge Elimination System (SPDES) general permit program for discharges from construction activities. Prior to the initiation of construction activities, a Stormwater Pollution Prevention Plan (SWPPP) would be developed pursuant to the requirements of the general permit and would be enforced throughout the sequence of construction activities. Since Flushing Bay is a regulated water body, the implementation of sustainable design features would be required to ensure that applicable discharge criteria would be met after construction is completed. These actions would ensure that pollution prevention measures are in place during and after construction activity, and enable adequate control of potential sources of pollution relating to stormwater management.

SOLID WASTE AND SANITATION

No significant adverse impacts on solid waste and sanitation services would result from the proposed Plan and the anticipated development on Lot B. Similarly, although the No Convention Center Scenario would result in a marginally higher demand for solid waste and sanitation services, this scenario would also not have a significant adverse impact. The municipal systems serving the District have adequate capacity to meet the projected increases in demand. In addition, proposed local improvements in City services would address the needs of the Plan.

The proposed Plan would displace two waste transfer businesses from the District—Tully Environmental and Crown Container. The permitted capacity of Crown Container is small, and the waste generated at that facility could be absorbed at other facilities. Tully Environmental currently processes putrescible municipal waste under a contract with the City. The North Shore marine transfer station (MTS) is expected to be operational by 2011, and will have the capacity

to process the waste currently handled by Tully. If Tully were displaced from the District before the North Shore MTS became operational, New York City Department of Sanitation (DSNY) waste currently processed by Tully would temporarily be transported to facilities in New Jersey in DSNY trucks. Therefore, the displacement of the two waste transfer businesses would not significantly impact the waste transfer industry within Queens or New York City.

ENERGY

The proposed Plan and the anticipated development on Lot B would increase demands on electricity and gas. However, relative to the capacity of these systems and the current levels of service within New York City, these increases in demand would be insignificant. Improvements would be made to the local electric and gas distribution grids that would ensure proper service to the District. Therefore, the cumulative demands of the proposed Plan and the anticipated development on Lot B would not result in a significant adverse impact on the supplies of electricity and gas in the region or the City as a whole, and with the future improvements to the distribution network, no impact would occur locally with respect to electrical or gas utilities. The No Convention Center Scenario would result in marginally lower energy demand and thus would also not result in a significant adverse impact.

TRAFFIC AND PARKING

VEHICULAR TRAFFIC

The future baseline (future No Build) volumes, to which the traffic generated by the proposed Plan and Lot B would be added, and the future levels of service are expected to be significantly worse than existing conditions due directly to the approximately 90 background developments planned in the study area and a projected background traffic growth of approximately 11.5 percent. Therefore, traffic generated by the proposed Plan and Lot B would be in addition to high baseline volumes and poor levels of service at many of the analysis intersections and along key sections of the highway network, resulting in numerous significant impacts.

The proposed Plan and Lot B is expected to be a significant traffic generator on the highways surrounding the District—including the Grand Central Parkway, the Van Wyck Expressway, and the Whitestone Expressway—and the local street network. The Build volume increments generated by the proposed Plan and Lot B would be 3,685 vehicles per hour (vph) in the AM peak hour, 5,434 vph in the midday peak hour, and 6,752 vph in the PM peak hour on a typical weekday without a Mets home game. The volume increment generated by the proposed Plan and Lot B during a typical Saturday midday peak hour without a Mets home game would be 7,099 vph—the highest increment of all the analyzed peak hours. For peak hours with a Mets home game, the proposed Plan is expected to generate 5,199 vph in the weekday PM (evening) pre-game peak hour, 5,544 vph in the Saturday midday pre-game peak hour, and 5,128 vph in the Saturday PM (afternoon) post-game peak hour.

As a result, of the 29 intersections analyzed, the proposed Plan and Lot B are expected to have significant traffic impacts at 21 intersections in the weekday AM peak hour, 19 in the weekday midday peak hour, 23 in the weekday PM peak hour, and 22 in the non-game-Saturday midday peak hour. During each of the three game-day peak hours, there would be significant traffic impacts at 24 intersections. (See Table S-4).

Table S-4

2017 Build Condition Significant Impact Summary

Intersections	Without a Mets Game				With a Mets Game		
	Weekday AM	Weekday Midday	Weekday PM	Saturday Midday	Pre-game Weekday PM	Pre-game Saturday Midday	Post-game Saturday PM
Astoria Boulevard at 108th Street			x		x		
Northern Boulevard at 108th Street	x		x	x	x	x	x
Northern Boulevard at 114th Street	x		x		x	x	x
Northern Boulevard at 126th Street	x	x	x	x	x	x	x
Northern Boulevard at Prince Street	x	x	x	x	x	x	x
Northern Boulevard at Main Street				x		x	x
Northern Boulevard at Union Street	x	x	x	x	x	x	x
Northern Boulevard at Parsons Boulevard	x	x	x	x	x	x	x
34th Avenue at 114th Street							
34th Avenue at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 108th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 111th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 114th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at College Point Boulevard	x	x	x	x	x	x	x
Roosevelt Avenue at Prince Street	x	x	x	x	x	x	x
Roosevelt Avenue at Main Street	x	x	x	x	x	x	x
Roosevelt Avenue at Union Street		x	x	x	x	x	x
Roosevelt Avenue at Parsons Boulevard	x	x	x	x	x	x	x
Kissena Boulevard at Main Street							
Sanford Avenue at College Point Boulevard	x	x	x	x	x	x	x
Sanford Avenue at Union Street	x	x	x	x	x	x	x
Sanford Avenue at Parsons Boulevard	x		x	x	x	x	x
32nd Avenue at College Point Boulevard					x	x	x
World's Fair Marina at Boat Basin Road	x	x	x	x	x	x	x
Northern Boulevard at College Point Boulevard	x	x	x	x	x	x	x
Stadium Road at Grand Central Parkway							
New Willeys Point Boulevard at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at New Citi Field Internal Street							
Notes: x means the intersection would be significantly impacted.							

Although the proposed Plan would include new access ramps to and from the Van Wyck Expressway at the northeastern corner of the District, it is projected that some sections of the highway mainlines and critical ramp junctions would be significantly impacted as well. Furthermore, the new access ramps, while expected to reduce the use by project-generated traffic of certain local streets to access the District, would also cause significant traffic increases and level of service degradations on the Van Wyck Expressway mainline in both directions in the vicinity of the District.

Table S-5 presents a summary of significant adverse traffic impacts and their ability to be mitigated.

Table S-5
Traffic Impact Mitigation Summary—Year 2017

Study Intersections	Without a Mets Game				With a Mets Game		
	Weekday AM	Weekday Midday	Weekday PM	Saturday Midday	Weekday PM Pre-game	Saturday Midday Pre-game	Saturday PM Post-game
No Significant Impact	8	10	6	7	5	5	5
Fully Mitigated Impact	7	7	8	7	9	8	9
Partially Mitigated Impact	2	1	2	2	1	3	3
Unmitigated Impact	12	11	13	13	14	13	12

The overall finding of the traffic mitigation analysis is that the majority of locations would be significantly impacted, and that the need for a broad range of mitigation measures would be substantial. Approximately one-half, or less, depending on the peak hour, of the significantly impacted locations could be fully or partially mitigated with traffic signal operation changes, such as signal phasing and/or timing changes, or the signalization of an unsignalized intersection, and limited parking prohibitions, while an additional location could be fully mitigated with a turn prohibition. Using signal timing modification measures, installation of new traffic signal equipment, limited parking prohibitions, and a minor turn prohibition, significant impacts occurring in one or more of the analysis peak hours could be fully or partially mitigated at the following traffic study area locations:

- Astoria Boulevard at 108th Street (fully mitigated);
- Northern Boulevard at Main Street (partially mitigated);
- Northern Boulevard at Union Street (fully mitigated);
- Northern Boulevard at Parsons Boulevard (partially mitigated);
- Roosevelt Avenue at 108th Street (fully mitigated);
- Roosevelt Avenue at 111th Street (fully mitigated);
- Roosevelt Avenue at Parsons Boulevard (fully mitigated);
- Sanford Avenue at College Point Boulevard (fully mitigated);
- Sanford Avenue at Union Street (fully mitigated);
- Sanford Avenue at Parsons Boulevard (partially mitigated);
- College Point Boulevard at 32nd Avenue (fully mitigated);
- Northern Boulevard service road at College Point Boulevard (fully mitigated); and
- Boat Basin Road at World's Fair Marina (fully mitigated).

Table S-6 presents a summary of the intersections that could only be partially mitigated or not mitigated at all.

During game-day peak periods, modifications to the traffic control measures currently implemented by New York City Police Department (NYPD) traffic enforcement agents near Shea Stadium would be required at critical intersections in the vicinity of Citi Field in addition to the more standard types of mitigation measures listed above. This complete set of mitigation measures represents the standard range of traffic capacity improvements that are available to improve operating conditions and mitigate impacts, and that are deployed by the New York City Department of Transportation (NYCDOT) and/or NYPD.

Table S-6
Summary of Unmitigated Intersections

Intersections	Without a Mets Game				With a Mets Game		
	Weekday AM	Weekday Midday	Weekday PM	Saturday Midday	Pre-game Weekday PM	Pre-game Saturday Midday	Post-game Saturday PM
Astoria Boulevard at 108th Street							
Northern Boulevard at 108th Street	x		x	x	x	x	x
Northern Boulevard at 114th Street	x		x		x	x	x
Northern Boulevard at 126th Street	x	x	x	x	x	x	x
Northern Boulevard at Prince Street	x	x	x	x	x	x	x
Northern Boulevard at Main Street				x			
Northern Boulevard at Union Street	x	x	x	x	x		
Northern Boulevard at Parsons Boulevard							
34th Avenue at 114th Street							
34th Avenue at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 108th Street							
Roosevelt Avenue at 111th Street							
Roosevelt Avenue at 114th Street	x	x	x	x	x	x	x
Roosevelt Avenue at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at College Point Boulevard	x	x	x	x	x	x	x
Roosevelt Avenue at Prince Street	x	x	x	x	x	x	x
Roosevelt Avenue at Main Street	x	x	x	x	x	x	x
Roosevelt Avenue at Union Street		x	x	x	x	x	x
Roosevelt Avenue at Parsons Boulevard							
Kissena Boulevard at Main Street							
Sanford Avenue at College Point Boulevard							
Sanford Avenue at Union Street							
Sanford Avenue at Parsons Boulevard					x		
32nd Avenue at College Point Boulevard							
World's Fair Marina at Boat Basin Road							
Northern Boulevard at College Point Boulevard						x	
Stadium Road at Grand Central Parkway							
New Willets Point Boulevard at 126th Street	x	x	x	x	x	x	x
Roosevelt Avenue at New Citi Field Internal Street							
Notes:	x means the intersection is unmitigated or partially mitigated in the corresponding peak hour.						

In order to verify the need and effectiveness of the proposed mitigation measures identified in the DGEIS, and later in the Final Generic Environmental Impact Statement (FGEIS), the lead agency will develop and conduct a detailed monitoring plan when the proposed Plan is fully built and occupied. The monitoring program will include all locations where significant traffic impacts have been identified that would require parking removal, physical mitigation measures (e.g., new traffic signal equipment, lane re-striping, turn prohibitions, intersection approach modifications, and bus stop relocation), and signal timing modifications in excess of three seconds. Data collection conducted for the monitoring program will include 24-hour Automatic Traffic Recorder (ATR) machine counts, manual turning movement counts, pedestrian counts, and intersection geometric information. Additionally, in the areas where parking prohibitions would be needed to mitigate significant impacts, such as Downtown Flushing and Corona, curbside utilization surveys will be conducted to determine the number of vehicles that would be

displaced and where the displaced vehicles would be accommodated. The traffic monitoring program will also include intersection capacity and level of service analyses to determine whether actual future Build conditions have, in fact, resulted in significant traffic impacts and whether mitigation measures identified in the DGEIS and the FGEIS are actually required.

Effects of Traffic Mitigation on Air Quality and Noise

With regard to air quality, analysis results show that with the proposed traffic mitigation measures, future concentrations of pollutants with the proposed Plan and the anticipated development on Lot B would not result in any significant adverse air quality impacts, the exceedance of *de minimis* thresholds for CO, or the PM_{2.5} interim guidance criteria.

In terms of noise, L_{eq(1)} noise levels due to project-generated traffic with or without the proposed traffic mitigation plan would exceed the *CEQR Technical Manual's* impact criteria and result in significant adverse noise impacts during the non-game Saturday midday time period at noise receptor 3 (World's Fair Marina Park). There would be no feasible or practicable measures to mitigate this impact. Noise barriers or berms are impractical at this location due to space constraints. As a result, this would be an unmitigatable significant adverse impact.

While this noise level increase does exceed the CEQR threshold for a significant impact, the resultant L_{eq} of 72.4 dBA is not an uncommon level for a park in New York City. Noise levels of this magnitude frequently occur at parks or portions of parks that are adjacent to heavily trafficked roadways. The noise levels and the impacts shown exclude noise from aircraft operations at LaGuardia Airport, which is adjacent to the District. Excluding aircraft noise results in lower baseline levels and therefore a more conservative analysis, as the project-generated noise causes a larger increase on a lower baseline level. If the noise from aircraft operations were included in the baseline noise levels, it is unlikely that the impact identified at the World's Fair Marina Park would occur.

The noise impact with the traffic mitigation measures would occur at the same location and time as would occur without mitigation. While the addition of a traffic signal at this location would increase noise levels, and increase the magnitude of the impact during the Saturday midday time period, the changes in noise levels are less than a decibel, and would have no perceptible effect.

PARKING

The proposed Plan would provide sufficient new off-street and on-street parking as part of the development to service its demand. The proposed Plan would include the demapping and realignment of the local street network within the boundaries of the District, which is expected to increase the available on-street parking supply. Moreover, the proposed Plan's expected parking needs would be provided within the District. Consequently, it is not expected that traffic generated by the proposed Plan would have to seek parking opportunities outside of the District.

Under the Citi Field development project, Lot B would consist of 660 parking spaces for game-day stadium traffic. However, if Lot B were redeveloped with office and destination retail uses, it is expected to provide enough parking supply to accommodate the 660 replaced stadium parking spaces as well as the additional parking required for the new office and retail uses. Consequently, the Lot B redevelopment would provide 970 parking spaces, which is sufficient to accommodate the maximum parking demand.

NO CONVENTION CENTER SCENARIO

As compared with the proposed Plan, the No Convention Center Scenario would have approximately 6 percent more residential development and approximately 3 percent more retail development, and would result in an overall reduction equal to approximately 7 to 14 percent of the total number of generated trips during each of the peak hours. The greatest trip reductions would be in the weekday PM peak hour, the weekday evening pre-game peak hour, and the Saturday afternoon post-game peak hour. Since the assignment of convention center trips assumes predominant use of the highway routes to and from the District, it is expected that the No Convention Center Scenario would show some improvement in highway levels of service, but would not necessarily mean a reduction in the number of significant impacts on the highways. There would also be level of service improvements at highway ramp approaches to the intersections on 126th Street at 34th Avenue and at Northern Boulevard due to the reduction in convention center traffic to and from the highway network.

TRANSIT AND PEDESTRIANS

The proposed Plan and anticipated development on Lot B would result in significant adverse transit impacts on the street-level stairway on the north side of Roosevelt Avenue at the Willets Point-Shea Stadium subway station, and for the Q48 and Q66 bus routes. The proposed Plan and Lot B would also result in significant adverse pedestrian impacts at the east crosswalk at the intersection of Northern Boulevard and 126th Street; at the north, east, and west crosswalks at the intersection of Roosevelt Avenue and 126th Street; and at the new crosswalk at the signalized intersection of Roosevelt Avenue and the Lot B driveway.

To mitigate the projected street-level stairway impact, a 4.25-foot widening from its existing width of 8 feet to 12.25 would be required. The implementation of this mitigation measure would be coordinated with MTA/New York City Transit (NYCT) to allow enough time for design and specification approvals by MTA/NYCT and for the construction that would address the increased demand that would result from development of the proposed Plan and Lot B by 2017.

To mitigate the projected bus impacts on the Q48 bus route, 14 additional or 20 total eastbound buses and 8 additional or 13 total westbound buses would be required during the AM peak period. During the PM peak period, 27 additional or 31 total eastbound buses and 24 additional or 28 total westbound buses would be required. To mitigate the projected bus impacts of the Q66 route, 9 additional or 24 total eastbound buses would be required during the AM peak period and 3 additional or 14 total eastbound buses would be required during the PM peak period. The above considers potential service improvements to only the bus routes currently serving the immediate vicinity of the District. While MTA/NYCT routinely monitor changes in bus ridership and would make necessary service adjustments where warranted, the projected service demand is significant in magnitude. These service adjustments are subject to the agencies' fiscal and operational constraints and, if implemented, are expected to take place over time. Recognizing that these improvements may not be operationally viable or adequate in accommodating the projected future demand from developments planned for the District, discussions were initiated with NYCT to explore opportunities to extend existing bus routes from adjacent neighborhoods (e.g., downtown Flushing) and/or create new bus routes. Potential bus service improvements discussed include: 1) increasing service frequency on the Q19 and providing westbound stop/loop service to Willets Point; 2) extending some or all bus routes that currently terminate in downtown Flushing to Willets Point, including the Q12, Q13, Q14, Q15,

Q16, Q17, Q26, Q27, and Q28; and 3) possibly extending the limited QBx1 along Roosevelt Avenue and rerouting the X15 through Willets Point. To accommodate these potential service improvements, new bus stops and layover areas would be needed in and around the District. The City will collaborate with MTA/NYCT during and after this environmental review process to establish development guidelines and provisions to ensure that adequate bus service improvements would be implemented.

To mitigate the projected crosswalk impacts at the Roosevelt Avenue intersections with 126th Street and the Lot B driveway, restriping the existing crosswalks to widen the available crossing width would be necessary. However, because the extent of these widenings is limited, per NYCDOT standards, by the widths of the adjoining sidewalks, the projected significant adverse pedestrian impacts at the north, east, and west crosswalks at Roosevelt Avenue and 126th Street, and at the new crosswalk at the signalized intersection of Roosevelt Avenue and the Lot B driveway may remain unmitigated or partially mitigated.

AIR QUALITY

The proposed Willets Point Development Plan and the anticipated development on Lot B would not result in any significant adverse air quality impacts from either mobile or stationary sources.

The maximum predicted pollutant concentrations and cumulative concentration increments from mobile sources with the proposed Plan and the anticipated development on Lot B would be in compliance with the applicable guidance thresholds and ambient air quality standards. The parking facilities associated with the proposed Plan and the anticipated development on Lot B would also not result in any significant adverse air quality impacts. Similarly, emissions associated with the parking facilities on Citi Field parking Lot C, closest to the proposed District, and with the traffic along the elevated portion of Northern Boulevard adjacent to proposed uses would result in concentrations in the proposed District that would be in compliance with applicable standards and thresholds. Thus, the proposed Plan would not result in significant adverse impacts from mobile source emissions.

Based on a stationary source screening analysis, there would be no potential for significant adverse air quality impacts from the heat and hot water systems of the proposed Plan and the anticipated development on Lot B, provided that restrictions described in the text are imposed on the placement of heating, ventilation, and air conditioning (HVAC) stacks of some uses. Nearby existing sources from manufacturing or processing facilities were analyzed for their potential impacts on the development that would be introduced under the proposed Plan. The results of that industrial source analysis conclude that there would be no significant adverse air quality impacts from existing industrial uses within 1,000 feet of the District.

NOISE

Traffic generated by the proposed Plan and Lot B would result in a significant increase in noise levels only at the World's Fair Marina Park during the Saturday midday time period. As a result of the proposed Plan and the potential anticipated development on Lot B, a substantial amount of additional traffic would pass by this park when accessing the westbound Grand Central Parkway. There would be no feasible or practicable measures to mitigate this impact. Noise barriers or berms are impractical because of space constraints. As a result, this would be an unmitigable significant adverse impact.

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While this noise level increase does exceed the CEQR threshold for a significant impact, the resultant L_{eq} of 72.4 dBA is not an uncommon level for a park in New York City. Noise levels of this magnitude frequently occur at parks or portions of parks that are adjacent to heavily trafficked roadways.

The noise levels shown and the impacts shown exclude noise from aircraft operations at LaGuardia airport, which is adjacent to the study area. If this noise were included in this analysis, baseline levels would increase such that it is unlikely that an impact would occur at this location during this time period.

To meet CEQR interior noise level requirements, buildings in the District would be required through a Restrictive Declaration to provide between 30 and 40 dB of building attenuation (e.g., using double-glazed windows with good sealing properties; alternate ventilation, such as central air-conditioning; and additional building insulation).

Citi Field Lot B could potentially be developed with a commercial use that would be subject to CEQR interior noise criteria. However, any future development at Lot B would be subject to a separate approval and environmental review process, and any required building attenuation would be developed at that time.

The No Convention Center Scenario would likely generate less traffic than the proposed Plan, and therefore, is not expected to generate any additional noise impacts.

CONSTRUCTION IMPACTS

The construction of the proposed Plan would take place from 2009 to 2017. Because the District is isolated from the surrounding neighborhoods, no significant adverse impacts related to land use, neighborhood character, or community facilities are expected.

The proposed Plan contemplates demolition of the former Empire Millwork Corporation Building. Demolition of this historic resource would constitute a significant adverse impact on architectural resources. As discussed above, measures to fully or partially mitigate this adverse impact would be explored.

The preparation and enforcement of a Health and Safety Plan (HASP) is expected to prevent any significant adverse impacts from hazardous materials. The installation of a vapor control system, if necessary, would prevent vapors from volatile organic compounds (VOCs) that may remain in the soil from entering the buildings and harming public health.

Traffic from construction would be substantially less than traffic generated by the full operation of the proposed Plan, and impacts at some locations could be addressed with the early implementation of measures to mitigate significant adverse impacts from the proposed Plan. Nevertheless, unmitigatable impacts could occur at some locations that have been identified as having unmitigatable impacts from operation of the Plan.

Air pollutant emissions from construction equipment and trucks would be reduced to the extent practicable by the enforcement of Local Law 77 of 2005, which requires all City-sponsored construction to reduce construction-related emissions of diesel particulate matter (DPM) by using the best available technology (BAT) to control emissions, and which applies to this project, as well as other measures. The District is large, and much of it is well-removed from publicly accessible locations where people would be expected to be present for extended durations. Although the majority of the construction would not affect the public, residents and workers in some of the buildings completed early in the Plan would be located adjacent to

construction sites during construction of the later buildings. Measures would be taken to address both the emissions levels and the location of sources relative to such receptor locations, to ensure that significant impacts on air quality during construction would not occur. These measures would include minimizing the use of diesel equipment; ensuring that all nonroad diesel engines with a power rating of 50 horsepower (hp) or greater and controlled truck fleets would utilize the best available tailpipe technology for reducing DPM emissions; locating large emission sources further than 50 feet from sensitive receptors, to the extent practicable; and ensuring that comprehensive fugitive dust control plans are implemented.

For noise impact determination purposes, significant adverse impacts are based on whether maximum predicted incremental noise levels at sensitive receptor locations off-site would be greater than the impact criteria suggested in the *CEQR Technical Manual* for two consecutive years or more. While increases exceeding the CEQR impact criteria for a shorter period of time may be noisy and intrusive, they are not considered to be significant adverse noise impacts. The District is large, and much of it is well-removed from any sensitive receptor. Previous analyses, such as those prepared for the Manhattanville and Atlantic Yards projects, have found that significant adverse noise impacts occur only at sensitive receptors that are close to and with a direct line of sight to the construction activity. In addition, little night work is expected, and any exceedances of the CEQR criteria at sensitive locations would occur during the day. Therefore, no long-term significant adverse noise impacts are expected from construction activities.

PUBLIC HEALTH

The proposed Plan and anticipated development on Lot B would not result in any significant adverse public health impacts related to air quality, noise, or hazardous materials.

D. UNAVOIDABLE ADVERSE IMPACTS

HISTORIC RESOURCES

As described above, the proposed Plan contemplates demolition of the former Empire Millwork Corporation Building. Demolition of this building would constitute a significant adverse impact on this historic resource. Measures to partially mitigate this impact, which could include archival photo documentation, would be developed in consultation with OPRHP. However, this impact would not be completely eliminated. Therefore, it would constitute an unavoidable significant adverse impact on this historic resource as a result of the proposed Plan

TRAFFIC

Out of the 29 intersections analyzed in the traffic study area during the seven peak hours, all significant adverse traffic impacts could be fully mitigated with the following exceptions:

- In the weekday AM peak hour, there would be two partially mitigated intersections—Northern Boulevard at Parsons Boulevard, and Sanford Avenue at Parsons Boulevard—and 12 unmitigatable intersections, including: Northern Boulevard at 108th, 114th, 126th, Prince, and Union Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, and Main Streets, and at College Point Boulevard; and 126th Street at the new Willets Point Boulevard.
- In the weekday midday peak hour, Northern Boulevard at Parsons Boulevard would be partially mitigated, and 11 intersections could not be mitigated, including: Northern

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Boulevard at 126th, Prince, and Union Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; and 126th Street at the new Willets Point Boulevard.

- In the non-game weekday PM peak hour, the Parsons Boulevard intersection at Northern Boulevard and at Sanford Avenue would be partially mitigated, and 13 intersections would not be mitigated, including: Northern Boulevard at 108th, 114th, 126th, Prince, and Union Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; and 126th Street at the new Willets Point Boulevard.
- In the non-game Saturday midday peak hour, there would be two partially mitigated intersections—Northern Boulevard at Parsons Boulevard, and Sanford Avenue at Parsons Boulevard—and 13 unmitigatable intersections, including: Northern Boulevard at 108th, 126th, Main, Prince, and Union Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; and 126th Street at the new Willets Point Boulevard.
- In the weeknight pre-game peak hour, Northern Boulevard at Parsons Boulevard could only be partially mitigated, and 14 intersections could not be mitigated, including: Northern Boulevard at 108th, 114th, 126th, Prince, and Union Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; Sanford Avenue at Parsons Boulevard; and 126th Street at the new Willets Point Boulevard.
- In the Saturday pre-game peak hour, Northern Boulevard at Main Street and at Parsons Boulevard, and Sanford Avenue at Parsons Boulevard, would be partially mitigated, while 13 intersections could not be mitigated at all, including: Northern Boulevard at 108th, 114th, 126th, and Prince Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; College Point Boulevard at the Northern Boulevard service road; and 126th Street at the new Willets Point Boulevard.
- In the Saturday post-game peak hour, there would be three partially mitigated intersections—Northern Boulevard at Main Street and at Parsons Boulevard, and Sanford Avenue at Parsons Boulevard—similar to the Saturday pre-game peak hour, and 12 unmitigatable intersections, including: Northern Boulevard at 108th, 114th, 126th, and Prince Streets; 34th Avenue at 126th Street; Roosevelt Avenue at 114th, 126th, Prince, Main, and Union Streets, and at College Point Boulevard; and 126th Street at the new Willets Point Boulevard.

PEDESTRIANS

The significant adverse pedestrian impacts at the north, east, and west crosswalks at the intersection of Roosevelt Avenue and 126th Street, and at the new crosswalk at the signalized intersection of Roosevelt Avenue and the Lot B driveway during the weekday midday peak period, the weekday PM peak period, the weekday pre-game peak period, the Saturday non-game peak period, the Saturday pre-game peak period, and the Saturday post-game period could be mitigated by restriping these crosswalks to achieve wider crossing widths. If such widenings could not be achieved, the projected significant adverse impacts during these time periods would remain unmitigated or partially mitigated.

NOISE

As described above, noise levels due to project-generated traffic would result in a significant adverse noise impact during the non-game Saturday midday time period at noise receptor 3 (World's Fair Marina Park). There would be no feasible or practicable measures to mitigate this impact. Noise barriers or berms are impractical at this location due to space constraints. As a result, this would be an unmitigatable significant adverse impact.

E. ALTERNATIVES

This DGEIS examines five alternatives to the proposed Plan: a No Action Alternative; a No Unmitigated Impact Alternative; a Flushing Bridge Alternative; a Municipal Services Alternative; and a Staged Acquisition Alternative.

The No Action Alternative represents conditions that would exist if the proposed Plan were not implemented. The No Unmitigated Impact Alternative examines the level of development that would be necessary to avoid all the potential unmitigated impacts associated with the proposed Plan. The Flushing Bridge Alternative assesses the proposed Plan with construction of a new pedestrian bridge connecting the District and Downtown Flushing. The Municipal Services Alternative evaluates conditions that would be likely to occur if the District was not rezoned but additional municipal services were provided to the District. The Staged Acquisition Alternative assumes that properties in the District would be acquired and infrastructure developed over time.

NO ACTION ALTERNATIVE

The No Action Alternative would avoid some of the adverse environmental impacts of the proposed Plan. However, because this alternative would allow the continued industrial use of the District, it would not allow for development of affordable housing, community facilities, and public open space. It also would not comprehensively remediate contaminated soils and groundwater, nor provide new sanitary and storm sewers, and as a result, there would continue to be degraded water quality and potential impacts to aquatic biota through the continued recharge of wastewater, polluted stormwater, and sediments from the District to the Flushing River, Flushing Bay, and groundwater aquifers. Because the No Action Alternative would not develop new retail and entertainment uses, it would not generate the substantial economic and civic benefits resulting from the proposed Plan in the way of new jobs and tax revenues. Moreover, this alternative would not advance a number of the Downtown Flushing Development Framework's fundamental goals, including the creation of a regional destination that would enhance economic growth in Downtown Flushing and Corona, improvement of environmental conditions, and integration of new development in the District with surrounding amenities.

NO UNMITIGATED IMPACT ALTERNATIVE

The No Unmitigated Impact Alternative explores modifications to the proposed Plan that would mitigate project impacts to historic resources, traffic, pedestrians, and noise:

- For historic resources, this alternative would avoid the demolition of the Empire Millwork Corporation Building that would occur with the proposed Plan. Although this could be achieved through adaptive reuse, exterior elements such as windows and façades would still need to be upgraded to comply with building codes and noise attenuation requirements. Furthermore, the building is located below flood elevation, and its site could not be raised if it would remain. Therefore, flood protection measures such as gates or pumps would be

required to comply with flood insurance requirements. Overall, this alternative would reduce the footprint of any new development, which would result in greater density in the remainder of the District, fewer housing units, less open space, or some combination of these possibilities. The preservation of this resource would also significantly constrain the design of the proposed Plan in ways that could make future development of the District more difficult and may undermine the benefits of the proposed Plan. The former Empire Millwork Corporation Building could be demolished as-of-right under existing conditions, and mitigation measures such as photographic documentation would not be required.

- For traffic, the proposed Plan and anticipated development on Lot B would result in significant adverse traffic impacts that cannot be fully alleviated with practical mitigation measures. Because of existing congestion at a number of intersections, even a minimal increase in traffic would result in unmitigated impacts. Based on a sensitivity analysis of intersections within the study area, it was determined that the addition of five cars during the Saturday midday peak period would trigger an impact that cannot be fully mitigated. Thus, almost any new development in the District, including new industrial development that could be constructed as-of-right, would result in unmitigated traffic impacts, and no reasonable alternative could be developed to avoid such impacts.
- For pedestrian conditions, the proposed Plan and anticipated development on Lot B would result in significant adverse pedestrian impacts at four study area crosswalks that may not be fully mitigated because the widening of these crosswalks via restriping is limited by, per NYCDOT standards, the widths of the adjoining sidewalks. In order to make full mitigation possible, the incremental pedestrian volumes would have to be reduced by approximately 30 percent. This would require a substantial reduction in the development program.
- In terms of noise, to avoid the significant adverse noise impact expected at one location (Receptor 3) during a single analysis period, project-generated traffic increases on roadways adjacent to Receptor 3 would have to decrease. Traffic-generated volumes would need to decrease by approximately 29 percent on Boat Basin Road and 12 percent on World's Fair Marina to eliminate the significant impact at Receptor 3. Such reductions would necessitate a substantial reduction in the proposed Plan development program, and no reasonable alternative could be developed to avoid such impacts without substantially compromising the proposed Plan's stated goals. The noise level anticipated at World's Fair Marina Park in the future with the proposed Plan frequently occurs at parks or portions of parks that are adjacent to heavily trafficked roadways.

FLUSHING BRIDGE ALTERNATIVE

The Flushing Bridge Alternative would result in the same development within the District as the proposed Plan, and any impacts and associated mitigation identified for the proposed Plan would also be the same for the Flushing Bridge Alternative. The bridge itself would occupy land outside the District, including mapped wetlands along the Flushing River and within a parking lot at the foot of 37th Avenue. The bridge would need to be designed and engineered to minimize any effects on these wetlands, and subsequent investigation would be required to determine the potential for archaeological sensitivity and whether areas of soil disturbance contain hazardous materials. Like the proposed Plan, the Flushing Bridge Alternative would result in substantial public benefits from redevelopment of the District. The Flushing Bridge Alternative would also improve pedestrian access to the District, increase access to proposed open space, and help integrate new development in the District with surrounding amenities.

MUNICIPAL SERVICES ALTERNATIVE

The Municipal Services Alternative would allow the continuation of industrial uses within the District but would provide for new public infrastructure (streets and utilities) to serve existing and future businesses. Unlike the proposed Plan, this alternative would not result in the creation of a dynamic, sustainable community that integrates regional attractions and residential, retail, and other uses. It would not provide for new affordable housing units, community facilities, or open space within the District. Also unlike the proposed Plan, the Municipal Services Alternative would not advance a number of the Downtown Flushing Development Framework's fundamental goals, including the creation of a regional destination that would enhance economic growth in Downtown Flushing and Corona, and integration of new development in the District with surrounding amenities.

Unlike the proposed Plan, the Municipal Services Alternative would not result in the filling of District to flood elevation. Based on the elevation of the existing streets and outfalls, and the various distances over which stormwater would be required to travel, it is not known if there is sufficient elevation in all areas of the District to make an adequately sized and properly functioning storm sewer system. If it is determined that a system could be engineered with minor and localized elevation changes in the streets, the feasibility of these changes would need to be evaluated with regard to impacts on adjacent properties. If these elevation changes are determined to be infeasible because they would impact site access or drainage, or for any other reason, then other more complex alternatives would need to be evaluated.

Because the District would remain built out with industrial uses, unlike the proposed Plan, an on-site detention tank or other comparable detention feature necessary to avoid expanding the existing outfalls or constructing a new outfall could not be provided. Therefore, in order to accommodate stormwater runoff generated onsite that is beyond the discharge capacity of the existing outfalls on 126th Street and 127th Street, new outfalls would be constructed or the existing outfalls would be modified. In order for the new storm sewer system to meet the New York State Department of Environmental Conservation (DEC) discharge quality requirements, pretreatment of stormwater would be necessary prior to the point of discharge. The overall capacity, size, and elevations required to implement a properly functioning system would need to be evaluated. Given the lack of available space within the District, the design and implementation of any water quality system may present significant engineering challenges.

Although any necessary remediation of hazardous materials would be undertaken in areas of utility construction, a comprehensive remediation plan for the District would not be implemented, and some soil and groundwater would continue to be contaminated.

Similar to the proposed Plan, the Municipal Services Alternative would require a new pump station and main to transmit sanitary flow from the District to the existing 96-inch-diameter City sewer in 108th Street (which flows to the Bowery Bay WPCP). Because the District would remain built out with industrial uses under the Municipal Services Alternative, the new pump station would need to be constructed outside of the District. While the provision of new storm sewer lines and new or expanded outfalls would decrease the frequency and severity of flooding in the District, there would still be potential for flooding during storm conditions, since much of the District would remain below the 100-year floodplain.

The Municipal Services Alternative would not change the development density of the District; however, it is likely that some new industrial uses could occur within the District once the new infrastructure has been provided. This potential new development would generate vehicle trips

(although less than the proposed Plan), and like the proposed Plan, the Municipal Services Alternative could result in significant adverse traffic impacts at a majority of study area locations, given the substantial no-build traffic in the study area even without development from the proposed Plan.

STAGED ACQUISITION ALTERNATIVE

The Staged Acquisition Alternative would result in a development program that is the same as the proposed Plan, but properties would be acquired and developed over time to allow the City additional time to find suitable relocation sites and to spread the cost of property acquisition and infrastructure improvements over time. It is anticipated that the western portion of the District would be developed by 2013, with the eastern portion of the site to be built out by 2017. There would be no lag time between development of the western and eastern portions of the District.

At full build-out, this Alternative would develop the District with the same gross floor area and mix of uses as the proposed Plan. In general, the most substantial differences between the Staged Acquisition Alternative and the proposed Plan are the timing of property acquisition and construction phasing. While the necessary remediation, grading, and infrastructure improvements would take place across the District at the beginning stages of construction for the proposed Plan, they would occur more incrementally under this alternative. This could require additional safeguards to ensure that existing hazardous materials contamination on the eastern portion of the District would not migrate to the western portion of the District subsequent to the remediation of the western properties. It could also require a more complex stormwater management plan, since new storm systems put in place prior to 2013 would need to ensure adequate retention and discharge of stormwater in the western portion of the District, and after 2013 would need to be integrated with new stormwater systems put in place on the eastern portion of the site to ensure efficient District-wide stormwater management. Roadway access to the eastern portion of the site would need to be maintained for several years while the western portion of the site is being developed, and until such time when the City acquires the eastern properties for development under the full build-out.

The Staged Acquisition Alternative would have differences in the siting of certain uses and the layout of the District's street grid when compared with the proposed Plan. Under the Staged Acquisition Alternative, new connections to the Van Wyck Expressway would conform to the existing street network. The southern portion of 127th Street and all of 34th Avenue would remain in their current alignments. Willets Point Boulevard would remain in place in order to allow access to existing utilities beneath it, and would remain open to vehicular traffic except for its southern end, which would serve as a pedestrian boulevard and open space. Before complete acquisition of the eastern portion of the District, east-west streets would be elevated above the floodplain in the western portion of the District, and would be graded to slope down to the existing streets to the east, allowing continued access to and from remaining businesses in the District. After acquisition of the eastern properties, streets in that area would be raised above the floodplain. Streets in the redeveloped western portion of the District that were constructed to slope down to existing eastern streets would be regraded to meet the new elevated streets to the east.

Due to the change in street configuration and massing, the Staged Acquisition Alternative would not provide the same flexibility in siting the convention center as the proposed Plan. While the 400,000-gross-squar-foot convention center could be located either in the northern or southeastern portion of the District under the proposed Plan, it would need to be located in the

northern portion of the District under the Staged Acquisition Alternative in order to preserve the existing street network in the eastern portion of the District.

The Staged Acquisition Alternative, like the proposed Plan, would utilize E-designations and Restrictive Declarations to ensure that there would be no significant adverse impacts with respect to hazardous materials, noise attenuation, and air quality (specifically associated with the heating, ventilation, and air conditioning system [HVAC]).

In general, traffic generated in 2013 under the Staged Acquisition Alternative would be approximately 60 to 70 percent of the traffic generated under the full build-out of the Proposed Plan, or the full build-out of the Staged Acquisition Alternative. An examination of eight critical intersections during the Saturday midday non-game and Saturday pre-game peak hours indicates that, in general, the extent of significant adverse traffic impacts in 2013 under the Staged Acquisition Alternative would be similar to those identified in 2017 with the proposed Plan. Mitigation measures for 2013 would also be similar to those identified for the proposed Plan in 2017.

In 2013, the number of transit and pedestrian trips generated as a result of the Staged Acquisition Alternative would be substantially fewer than those projected for the proposed Plan. Nonetheless, the Staged Acquisition Alternative in 2013 is expected to result in significant adverse impacts at the same street-level subway stairway. Although the amount of stairway widening necessary for mitigation would be less in 2013, it is anticipated that the full widening that would take place with the proposed Plan would also take place under this alternative by 2013. Compared with the proposed Plan, the Staged Acquisition Alternative in 2013 would have virtually the same significant adverse impacts on bus operations in the study area. However, under this alternative, the impacts would not be as severe, and fewer additional buses would be needed to mitigate the impacts. Similarly, this Alternative in 2013 would yield fewer and less severe significant adverse pedestrian impacts than the proposed Plan, and mitigation measures would be less.

Like the proposed Plan, this alternative in 2013 and 2017 would not result in any significant adverse air quality impacts from either mobile or stationary sources.

Noise levels in 2017 with the Staged Acquisition Alternative would be the same as for the full build-out of the proposed Plan. However, unlike the proposed Plan, there would be no significant adverse noise impacts in 2013 with the Staged Acquisition Alternative. As with the proposed Plan, window/wall attenuation measures would be included in buildings constructed by both 2013 and 2017 to achieve acceptable interior noise levels. *