

Open Space Resources

Res. No.	Resource Name
O01	2 Penn Plaza
O02	Bob's Park
O03	Javits Plaza
O04	640 W42nd St. Plaza
O05	Gregory J.M. Portley Plaza
O06	McCaffry Playground
O07	May Matthews Playground
O08	Heil's Kitchen Park
O09	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
O13	Golds Meir Square
O14	Herald Square
O15	Greely Square
O16	1250 Broadway Plaza
O17	230 W27th St. Park
O18	Fit Plaza

Res. No.	Resource Name
O19	Chelsea Park
O20	Elliot Houses Open Space
O21	Chelsea Houses Open Space
O22	Penn South Houses Open Space
O23	Penn Station South Houses Playground
O24	1 Penn Plaza
O25	Chelsea Waterside Park
O26	Clement Clarke Moore Park
O27	Bryant Park
O28	1095 5th Avenue Plaza
O29	Grace Plaza
O30	1155 Avenue of the Americas Plaza
O31	DeShaw & Co. Plaza
O32	1177 Avenue of the Americas Plaza
O33	1166 Ave. of the Americas Plaza
O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
O35	Father Duffy Square
O36	235 W48th St. Plaza

Res. No.	Resource Name
O44	High School of Graphic Comm./Guttenberg Plygrnd.
O45	Worldwide Plaza
O46	945 Seventh Ave. Plaza
O47	1251 Ave. of the Americas Plaza
O48	1633 Broadway/Paramount Plaza
O49	W. 33rd-34th Streets
O50	W. 34th-35th Streets
O51	W. 35th-36th Streets
O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
O56	Hudson River
O57	Hudson River Park
O58	Convention Center Roof Park
O59	Multi-Use Facility Park
O60	Block 675 Park
O61	High Line

Historic Resources

Res. No.	Resource Name
L1	Hill Building
L2	St. John the Baptist Roman Catholic Church
L3	St. Francis Roman Catholic Church
L4	St. Michael's Catholic Church
L5	Christ Church Memorial
L6	St. Raphael's Roman Catholic Church
L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edson
L11	Starrett-Lehigh

- Project Area
- Primary Study Area

- Open Space Resources
- Historic Resources

Open Spaces and
Historic Resources
**Shadow Analysis
No Build Conditions**

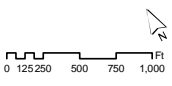
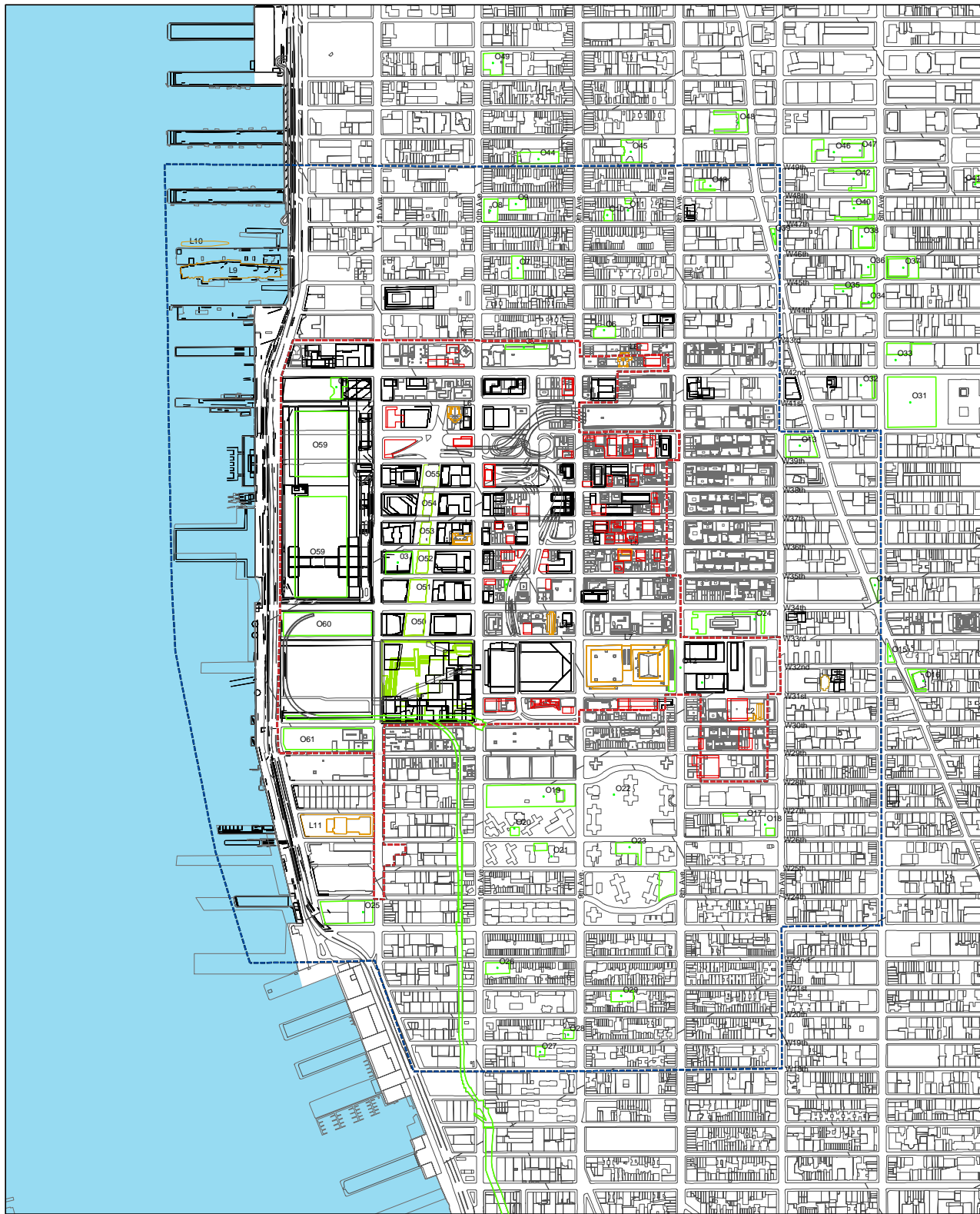


Figure 8-1



Open Space Resources

Res. No.	Resource Name
O1	2 Penn Plaza
O2	Bob's Park
O3	Javits Plaza
O4	640 W 42nd St. Plaza
O5	Gregory J.M. Portley Plaza
O6	McCaffry Playground
O7	May Matthews Playground
O8	Heil's Kitchen Park
O9	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
O13	Golds Meir Square
O14	Herald Square
O15	Greely Square
O16	1250 Broadway Plaza
O17	230 W 27th St. Park
O18	Fit Plaza

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O29	Grace Plaza
O30	1155 Avenue of the Americas Plaza
O31	DeShaw & Co. Plaza
O32	1177 Avenue of the Americas Plaza
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O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
O35	Father Duffy Square
O36	235 W 48th St. Plaza

Res. No.	Resource Name
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O51	W. 35th-36th Streets
O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
O56	Hudson River
O57	Hudson River Park
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O59	Multi-Use Facility Park
O60	Block 675 Park
O61	High Line

Historic Resources

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L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edson
L11	Starrett-Lehigh

- Project Area
- Primary Study Area
- Open Space Resources
- Historic Resources
- Projected Sites
- Potential Sites

Open Spaces and Historic Resources

Shadow Analysis Build Conditions

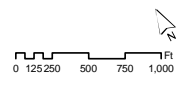
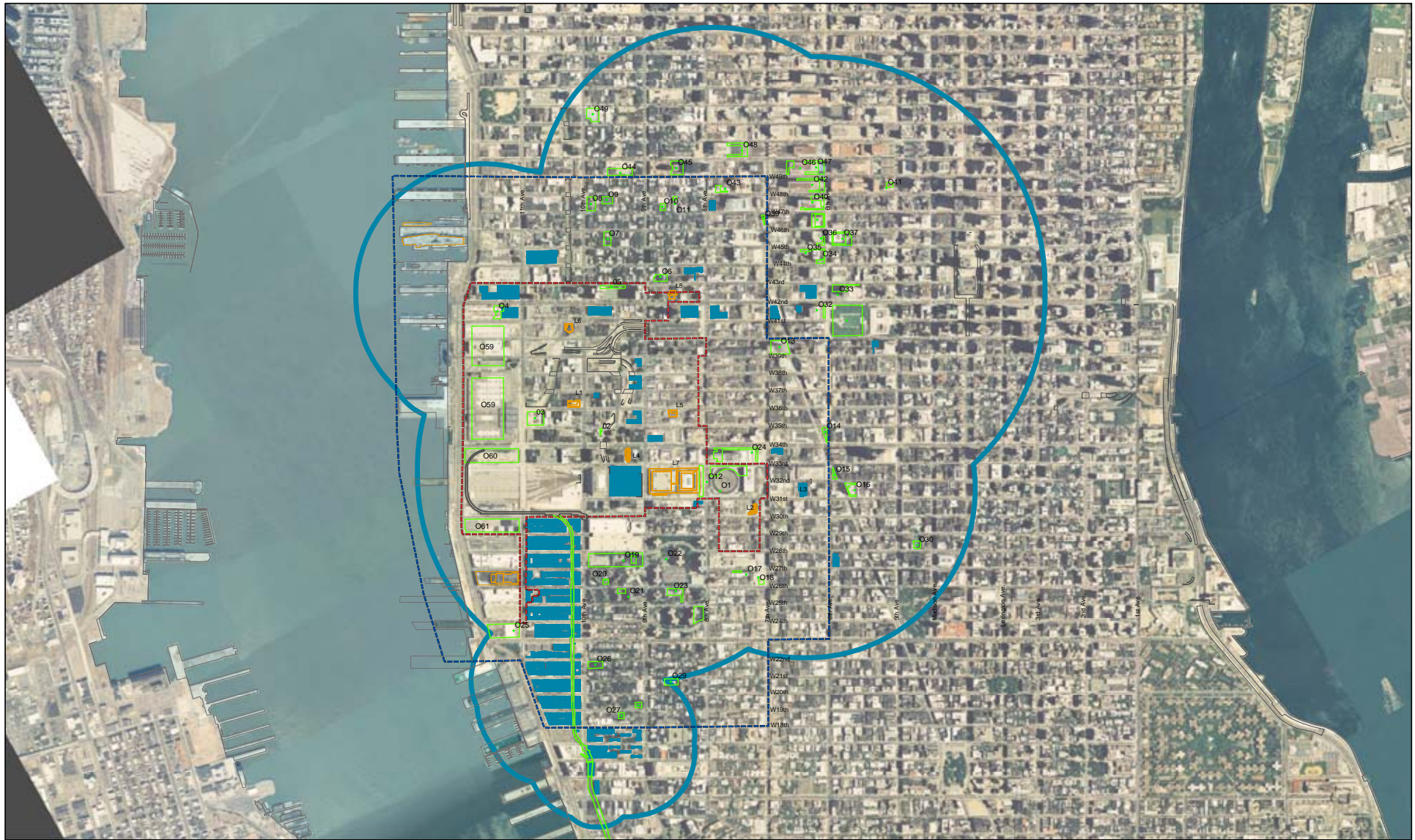


Figure 8-2



- Project Area
- Primary Study Area
- Open space resources
- Historic resources
- Max. Shadow Impact Area* No Build Conditions

* Max. Shadow Impact Area= 4.3 times the height of proposed development(s).

Maximum Shadow Impact Area

**Shadow Screening Analysis
2010-2025 No Build Conditions**



Figure 8-3



- Project Area
- Primary Study Area
- Open space resources
- Historic resources
- Projected sites
- Max. Shadow Impact Area* - Build Conditions

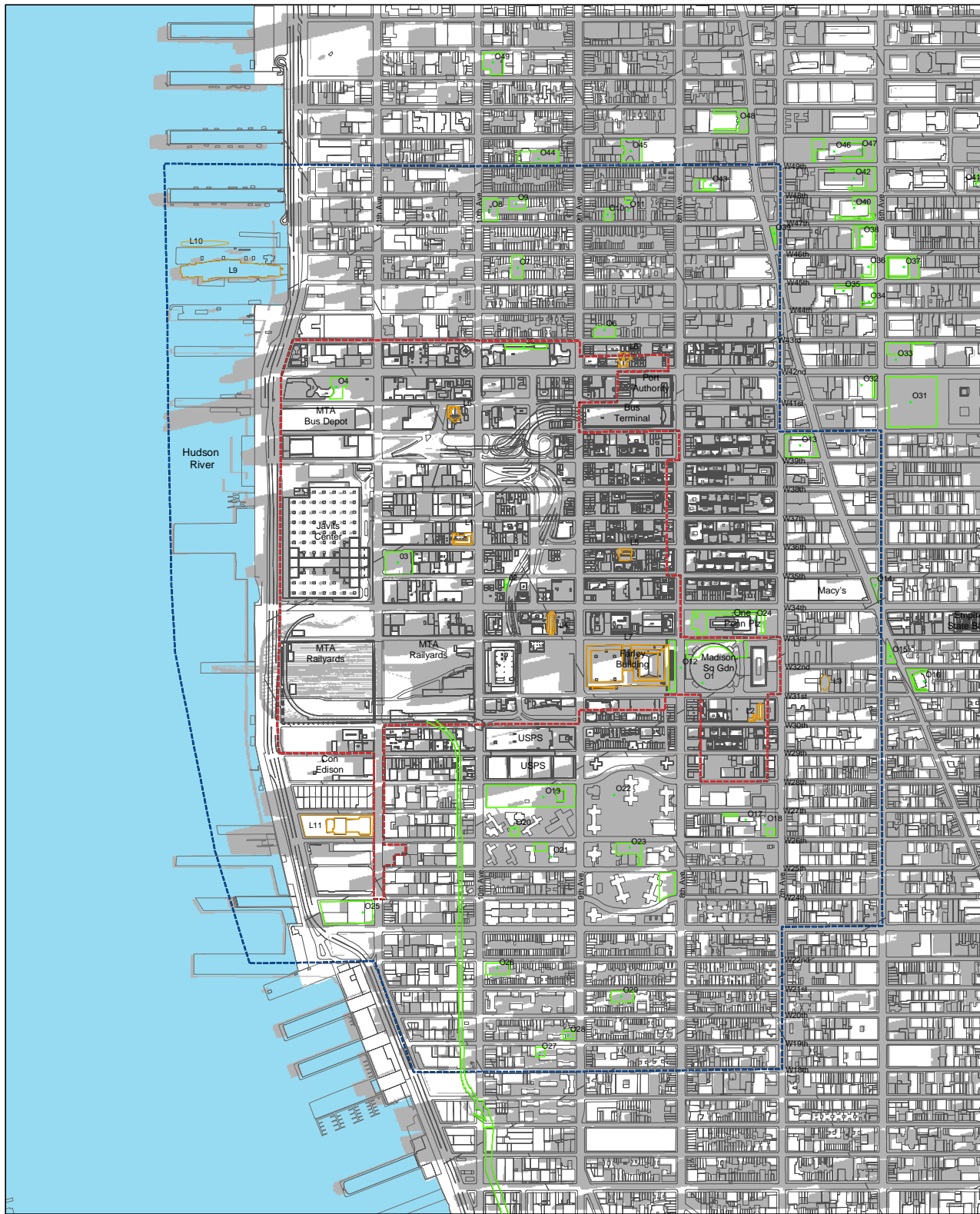
* Max. Shadow Impact Area= 4.3 times the height of proposed development(s).

Maximum Shadow Impact Area

**Shadow Screening Analysis
2010-2025 Build Conditions**



Figure 8-4



Open Space Resources

Res. No.	Resource Name
O1	2 Penn Plaza
O2	Bob's Park
O3	Javits Plaza
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O6	McCaffry Playground
O7	May Mathews Playground
O8	Heil's Kitchen Park
O9	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
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O14	Herald Square
O15	Greely Square
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O17	230 W27th St. Park
O18	Fit Plaza

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O25	Chelsea Waterside Park
O26	Clement Clarke Moore Park
O31	Bryant Park
O32	1095 5 Sixth Avenue Plaza
O33	Grace Plaza
O34	1155 Avenue of the Americas Plaza
O35	DeShaw & Co. Plaza
O36	1177 Avenue of the Americas Plaza
O37	1166 Ave. of the Americas
O38	1185 Ave. of the Americas-Westpoint Stevens Twr.
O39	Father Duffy Square
O43	235 W48th St. Plaza

Res. No.	Resource Name
O44	High School of Graphic Comm./Guttenberg Pklyrpd.
O45	Worldwide Plaza
O46	945 Seventh Ave. Plaza
O47	1251 Ave. of the Americas Plaza
O48	1633 Broadway/Paramount Plaza
O50	W. 33rd-34th Streets
O51	W. 34th-35th Streets
O52	W. 35th-36th Streets
O53	W. 36th-37th Streets
O54	W. 37th-38th Streets
O55	W. 38th-39th Streets
O56	W. 41st-42nd Streets
O57	Hudson River
O58	Hudson River Park
O59	Convention Center Roof Park
O60	Multi-Use Facility Park
O61	Block 675 Park
O62	High Line

Historic Resources

Res. No.	Resource Name
L1	Hill Building
L2	St. John the Baptist Roman Catholic Church
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L5	Christ Church Memorial
L6	St. Raphael's Roman Catholic Church
L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edison
L11	Starrett-Lehigh

 Project Area
 Primary Study Area
 Key for Shadows:
 Existing Conditions

 Open Space Resources
 Historic Resources

March 21, 7:36AM
Shadow Analysis
Existing Conditions

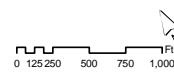
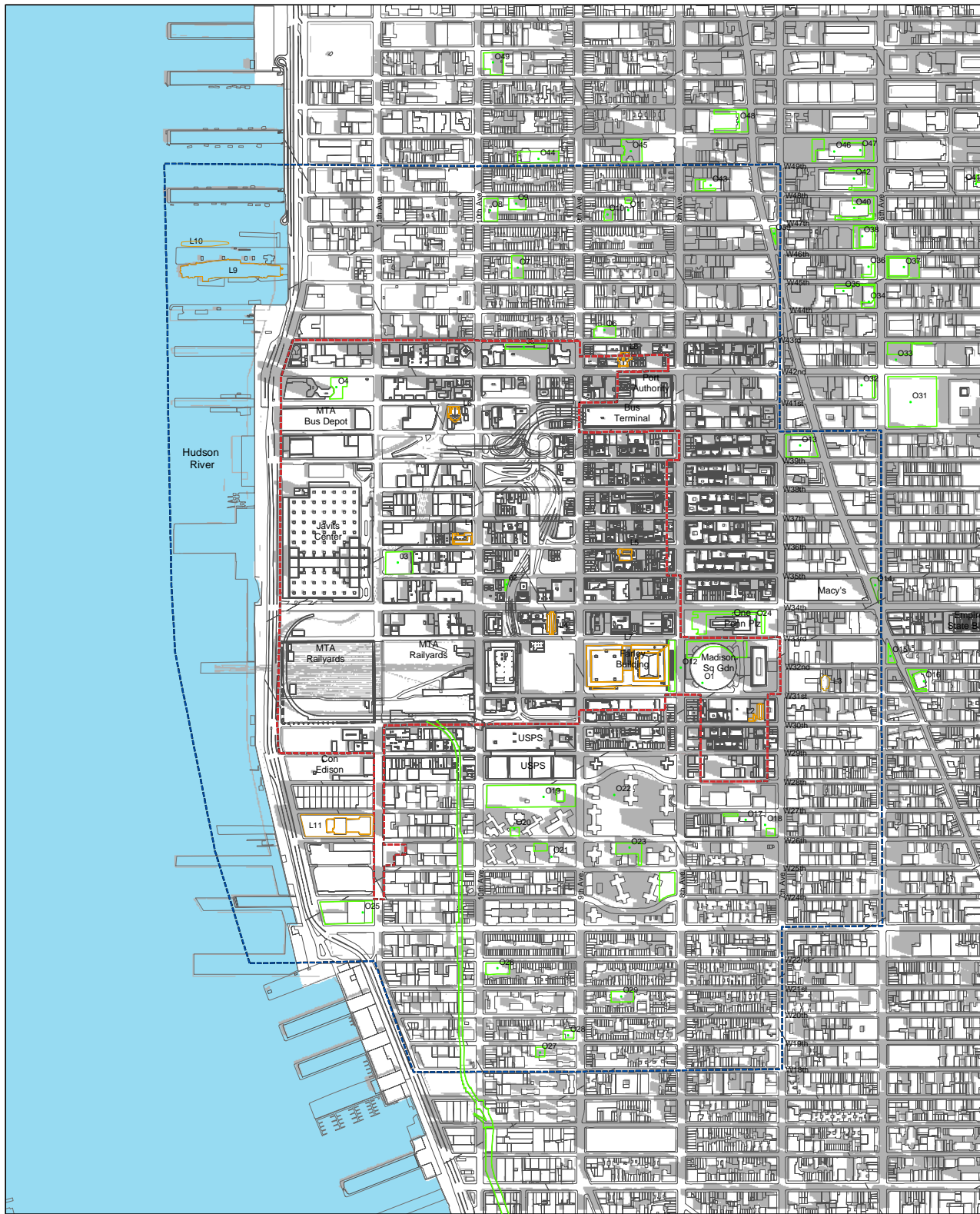


Figure 8-5



Open Space Resources

Res. No.	Resource Name
O01	2 Penn Plaza
O02	Bob's Park
O03	Javits Plaza
O04	640 W42nd St. Plaza
O05	Gregory J.M. Portley Plaza
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O07	May Mathews Playground
O08	Heil's Kitchen Park
O09	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
O13	Golds Meir Square
O14	Herald Square
O15	Greely Square
O16	1250 Broadway Plaza
O17	230 W27th St. Park
O18	Fit Plaza

Res. No.	Resource Name
O19	Chelsea Park
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O21	Chelsea Houses Open Space
O22	Penn South Houses Open Space
O23	Penn Station South Houses Playground
O24	1 Penn Plaza
O25	Chelsea Waterside Park
O26	Clement Clarke Moore Park
O27	Bryant Park
O28	1095 5 Sixth Avenue Plaza
O29	Grace Plaza
O30	1155 Avenue of the Americas Plaza
O31	DeShaw & Co. Plaza
O32	1177 Avenue of the Americas Plaza
O33	1166 Ave. of the Americas Plaza
O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
O35	Father Duffy Square
O36	235 W48th St. Plaza

Res. No.	Resource Name
O44	High School of Graphic Comm./Guttenberg Plygrnd.
O45	Worldwide Plaza
O46	945 Seventh Ave. Plaza
O47	1251 Ave. of the Americas Plaza
O48	1633 Broadway/Paramount Plaza
O49	W. 33rd-34th Streets
O50	W. 34th-35th Streets
O51	W. 35th-36th Streets
O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
O56	Hudson River
O57	Hudson River Park
O58	Convention Center Roof Park
O59	Multi-Use Facility Park
O60	Block 675 Park
O61	High Line

Historic Resources

Res. No.	Resource Name
L1	Hill Building
L2	St. John the Baptist Roman Catholic Church
L3	St. Francis Roman Catholic Church
L4	St. Michael's Catholic Church
L5	Christ Church Memorial
L6	St. Raphael's Roman Catholic Church
L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edison
L11	Starrett-Lehigh

Project Area
 Primary Study Area
 Key for Shadows:
 Existing Conditions

Open Space Resources
 Historic Resources

March 21, 10:05AM
Shadow Analysis
Existing Conditions

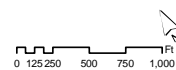


Figure 8-6



Open Space Resources

Res. No.	Resource Name
O1	2 Penn Plaza
O2	Bob's Park
O3	Javits Plaza
O4	640 W42nd St. Plaza
O5	Gregory J.M. Portley Plaza
O6	McCaffry Playground
O7	May Mathews Playground
O8	Heil's Kitchen Park
O9	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
O13	Golds Meir Square
O14	Herald Square
O15	Greely Square
O16	1250 Broadway Plaza
O17	230 W 27th St. Park
O18	Fit Plaza

Res. No.	Resource Name
O19	Chelsea Park
O20	Elliot Houses Open Space
O21	Chelsea Houses Open Space
O22	Penn South Houses Open Space
O23	Penn Station South Houses Playground
O24	1 Penn Plaza
O25	Chelsea Waterside Park
O26	Clement Clarke Moore Park
O27	Bryant Park
O28	1095 5 Sixth Avenue Plaza
O29	Grace Plaza
O30	1155 Avenue of the Americas Plaza
O31	DeShaw & Co. Plaza
O32	1177 Avenue of the Americas Plaza
O33	1166 Ave. of the Americas Plaza
O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
O35	Father Duffy Square
O36	235 W 48th St. Plaza

Res. No.	Resource Name
O44	High School of Graphic Comm./Guttenberg Plygrnd.
O45	Worldwide Plaza
O46	945 Seventh Ave. Plaza
O47	1251 Ave. of the Americas Plaza
O48	1633 Broadway/Paramount Plaza
O49	W. 33rd-34th Streets
O50	W. 34th-35th Streets
O51	W. 35th-36th Streets
O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
O56	Hudson River
O57	Hudson River Park
O58	Convention Center Roof Park
O59	Multi-Use Facility Park
O60	Block 675 Park
O61	High Line

Historic Resources

Res. No.	Resource Name
L1	Hill Building
L2	St. John the Baptist Roman Catholic Church
L3	St. Francis Roman Catholic Church
L4	St. Michael's Catholic Church
L5	Christ Church Memorial
L6	St. Raphael's Roman Catholic Church
L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edison
L11	Starrett-Lehigh

- Project Area
- Primary Study Area
- Key for Shadows:
 - Existing Conditions

- Open Space Resources
- Historic Resources

March 21, 1:59PM
Shadow Analysis
Existing Conditions

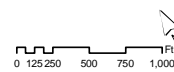
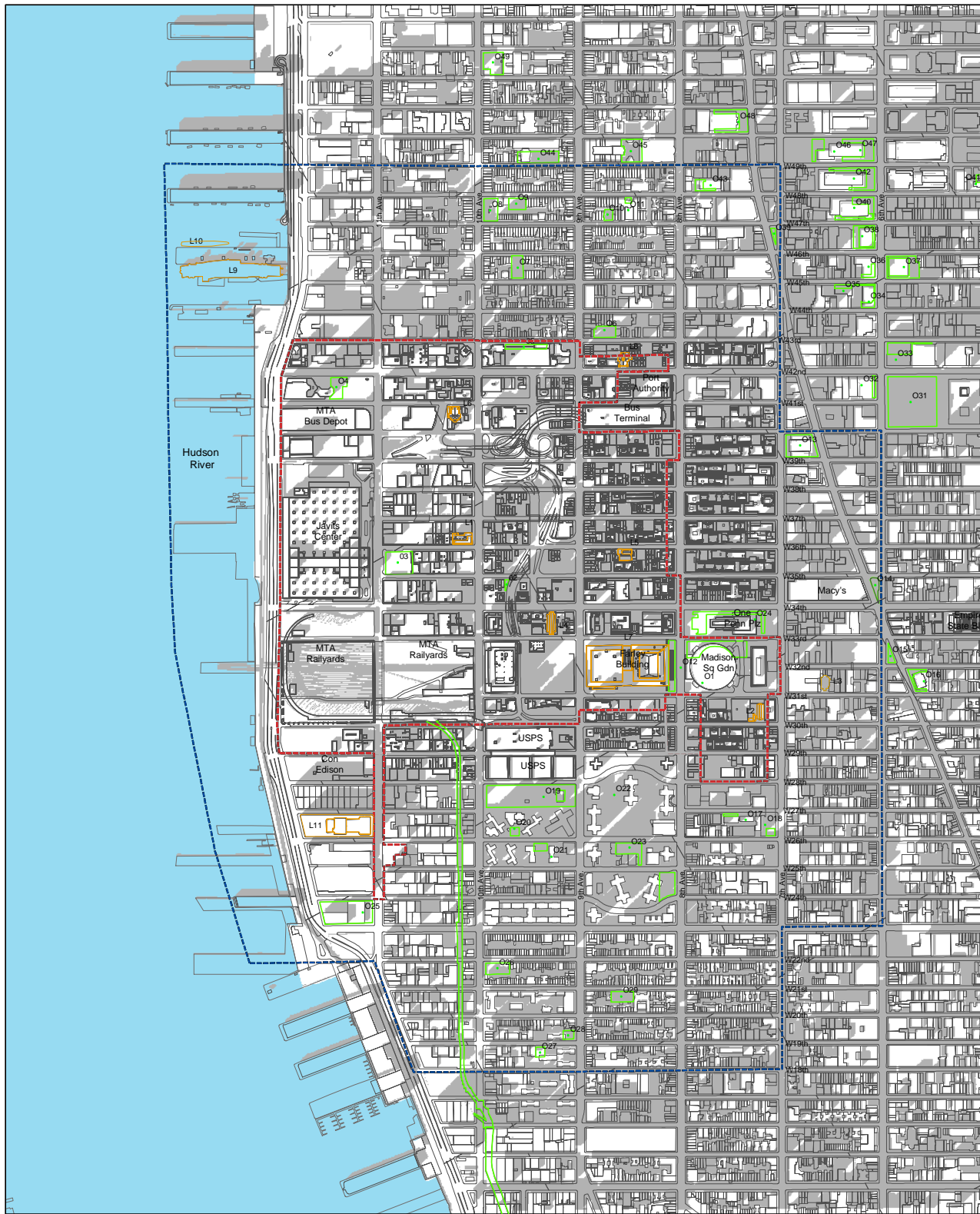


Figure 8-7



Open Space Resources

Res. No.	Resource Name
O01	2 Penn Plaza
O02	Bob's Park
O03	Javits Plaza
O04	640 W42nd St. Plaza
O05	Gregory J.M. Portley Plaza
O06	McCaffry Playground
O07	May Mathews Playground
O08	Heil's Kitchen Park
O09	Clinton Community Garden
O10	Ramon Aponte Park
O11	Marion S. Heishel Garden
O12	Post Office Stairs
O13	Golds Meir Square
O14	Herald Square
O15	Greely Square
O16	1250 Broadway Plaza
O17	230 W27th St. Park
O18	Fit Plaza

Res. No.	Resource Name
O19	Chelsea Park
O20	Elliot Houses Open Space
O21	Chelsea Houses Open Space
O22	Penn South Houses Open Space
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O24	1 Penn Plaza
O25	Chelsea Waterside Park
O26	Clement Clarke Moore Park
O27	Bryant Park
O28	1095 5 Sixth Avenue Plaza
O29	Grace Plaza
O30	1155 Avenue of the Americas Plaza
O31	DeShaw & Co. Plaza
O32	1177 Avenue of the Americas Plaza
O33	1166 Ave. of the Americas Plaza
O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
O35	Father Duffy Square
O36	235 W48th St. Plaza

Res. No.	Resource Name
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O45	Worldwide Plaza
O46	945 Seventh Ave. Plaza
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O53	W. 36th-37th Streets
O54	W. 37th-38th Streets
O55	W. 38th-39th Streets
O56	W. 41st-42nd Streets
O57	Hudson River
O58	Hudson River Park
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O60	Multi-Use Facility Park
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O62	High Line

Historic Resources

Res. No.	Resource Name
L1	Hill Building
L2	St. John the Baptist Roman Catholic Church
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L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edison
L11	Starrett-Lehigh

- Project Area
- Primary Study Area
- Key for Shadows:
 - Existing Conditions

- Open Space Resources
- Historic Resources

March 21, 4:29PM
Shadow Analysis
Existing Conditions

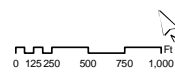
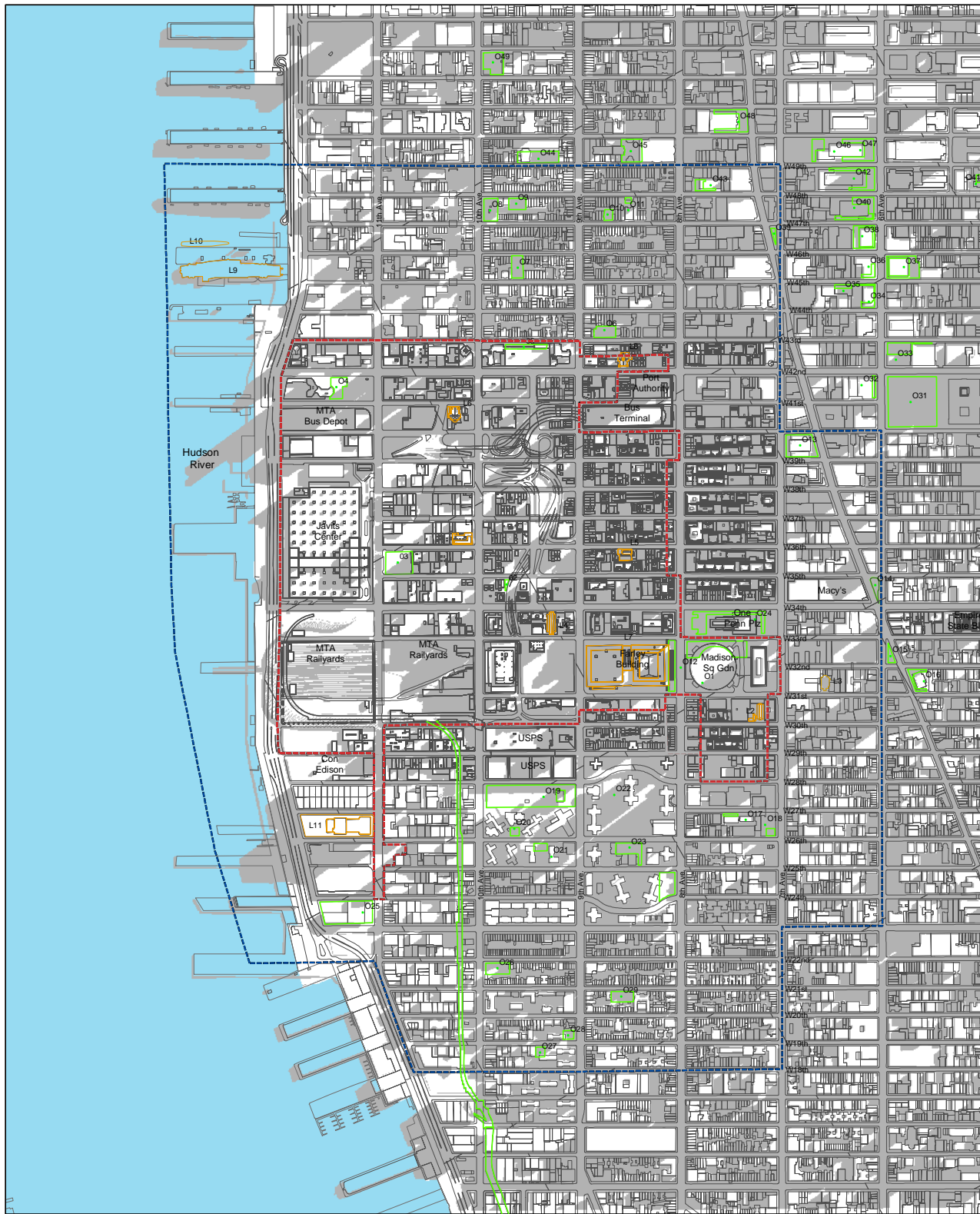


Figure 8-8



Open Space Resources

Res. No.	Resource Name
O1	2 Penn Plaza
O2	Bob's Park
O3	Javits Plaza
O4	640 W42nd St. Plaza
O5	Gregory J.M. Portley Plaza
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O33	1166 Ave. of the Americas Plaza
O34	1185 Ave. of the Americas-Westpoint Stevens Twr.
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O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
O56	Hudson River
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O61	High Line

Historic Resources

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L9	USS Intrepid
L10	USS Edson
L11	Starrett-Lehigh

- Project Area
- Primary Study Area
- Key for Shadows:
 - Existing Conditions

- Open Space Resources
- Historic Resources

May 6, 7:27AM
Shadow Analysis
Existing Conditions

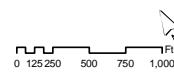
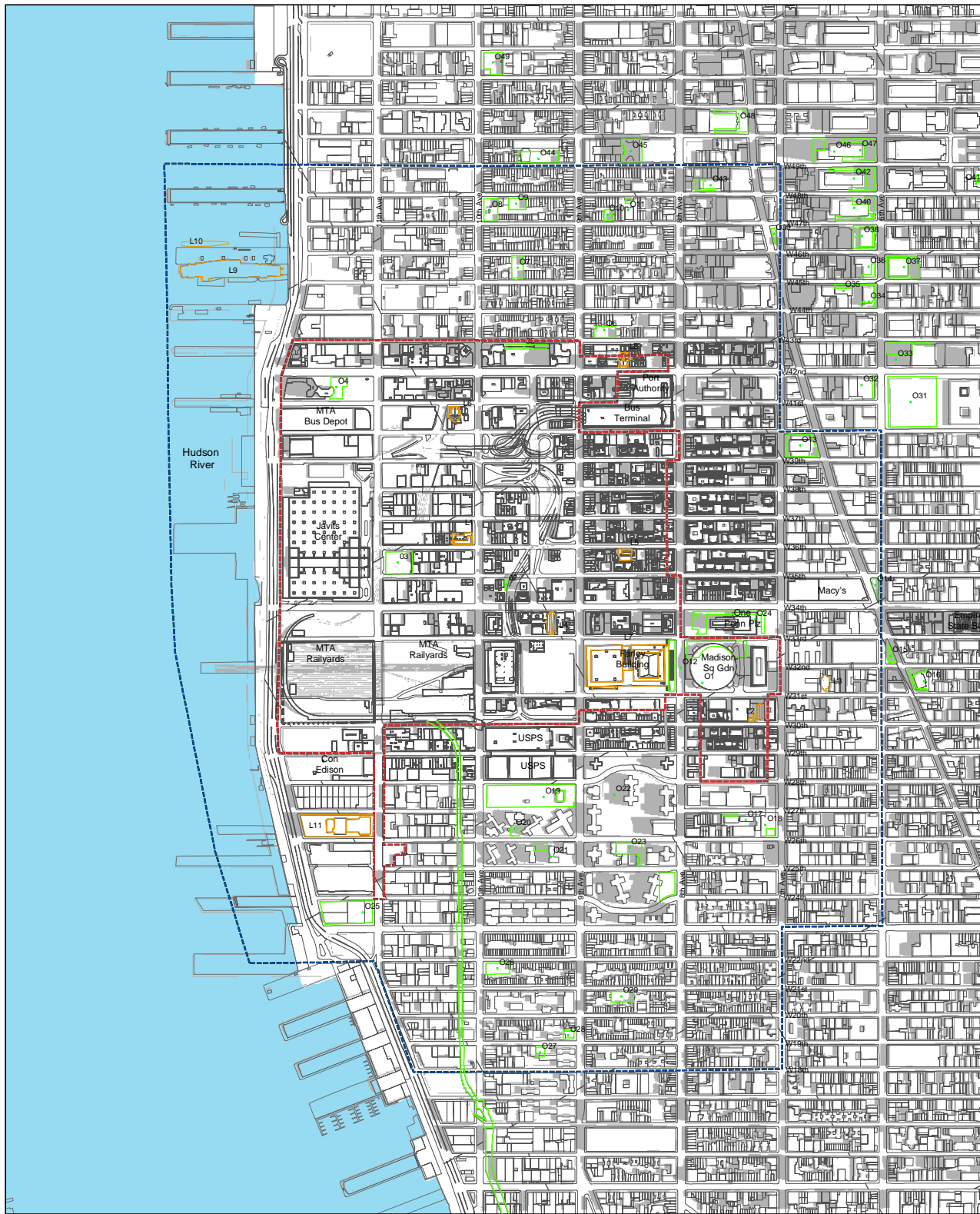


Figure 8-9



Open Space Resources

Res. No.	Resource Name
O1	2 Penn Plaza
O2	Bob's Park
O3	Javits Plaza
O4	640 W42nd St. Plaza
O5	Gregory J.M. Portley Plaza
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O52	W. 36th-37th Streets
O53	W. 37th-38th Streets
O54	W. 38th-39th Streets
O55	W. 41st-42nd Streets
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L6	St. Raphael's Roman Catholic Church
L7	The James A. Farley Building
L8	Holy Cross Roman Catholic Church
L9	USS Intrepid
L10	USS Edison
L11	Starrett-Lehigh

- Project Area
- Primary Study Area
- Key for Shadows:
 - Existing Conditions

- Open Space Resources
- Historic Resources

May 6, 11:00AM
Shadow Analysis
Existing Conditions

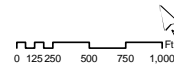


Figure 8-10