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ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) AND SUPPLEMENTAL STUDIES TO THE EAS

Lead Agency:
Department of City Planning
120 Broadway, 31st Floor
New York, NY 10271

Prepared for:
Ranco Capital LLC.

Prepared by:
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April 19, 2023

703 Myrtle Avenue Rezoning

Brooklyn, NY 11238
Block 1735, Lots 33, 34, 35, p/o 32, 36, 37, 38, 39
Brooklyn Community District 3

CEQR Reference No: 21DCP203K

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City Environmental Quality Review
ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) SHORT FORM

FOR UNLISTED ACTIONS ONLY • *Please fill out and submit to the appropriate agency* (see instructions)

Part I: GENERAL INFORMATION

1. *Does the Action Exceed Any Type I Threshold in 6 NYCRR Part 617.4 or 43 RCNY §6-15(A) (Executive Order 91 of 1977, as amended)?* ☐ YES ☒ NO

If "yes," **STOP** and **complete the FULL EAS FORM**.

2. *Project Name* 703 Myrtle Avenue

3. *Reference Numbers*

CEQR REFERENCE NUMBER (to be assigned by lead agency)	BSA REFERENCE NUMBER (if applicable)
21DCP203K	
ULURP REFERENCE NUMBER (if applicable)	OTHER REFERENCE NUMBER(S) (if applicable) (*e.g.*, legislative intro, CAPA)
220453ZMK, N220454ZRK	

4a. *Lead Agency Information*			**4b. *Applicant Information***		
NAME OF LEAD AGENCY Department of City Planning			NAME OF APPLICANT Ranco Capital LLC		
NAME OF LEAD AGENCY CONTACT PERSON Stephanie Shellooe, AICP, Director			NAME OF APPLICANT'S REPRESENTATIVE OR CONTACT PERSON Amber Kartalyan, Equity Environmental Engineering LLC		
ADDRESS 120 Broadway, 31st Floor			ADDRESS 500 International Drive, Suite 150		
CITY New York	STATE NY	ZIP 10271	CITY Mount Olive	STATE NJ	ZIP 07828
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5. *Project Description*

The Applicant, Ranco Capital LLC, is seeking the approval of a zoning map amendment and zoning text amendment (Proposed Actions) that would affect Block 1735, Lots 33, 34, and 35, and portions (p/o) of Lots 32, 36, 37, 38 and 39 (the Rezoning Area) in the Bedford-Stuyvesant neighborhood of Brooklyn, Community District 3. The Rezoning Area is bound by Myrtle Avenue to the south, Spencer Street to the west, Walworth Street to the east, and Park Avenue to the north.

The proposed zoning map amendment would rezone Block 1735; Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 from M1-1 to R7D/C2-4. The proposed zoning text amendment includes modifying Appendix F of the Zoning Resolution, Brooklyn CD 3 Map 13b to establish an area coterminous with the Rezoning Area as a Mandatory Inclusionary Housing (MIH) area for which Options 1 and 2 are being sought by the Applicant for maximum flexibility.

As indicated above, the Applicant Development Site (Projected Development Site 1) consists solely of Lot 39 of the Rezoning Area. The Proposed Actions would facilitate the development of Block 1735, Lot 39 with a new 8-story, 95'-6" mixed-use building with a total floor area of 66,884 gross square feet (GSF) (48,224 zoning square feet – "ZSF"; 5.60 FAR) mixed-use residential building with ground floor commercial space. The proposed development would include approximately 52,405 GSF; 43,755 ZSF; 5.08 FAR of residential floor area, 4,805 GSF (4,469 ZSF; 0.52 FAR) of commercial space, 9,674 GSF of parking, inclusive of a 1,610 GSF first floor parking ramp, and 11 off-street parking spaces in the proposed 8,064 GSF cellar. The Proposed Development would contain 54 dwelling units, 25-30% (14-16 units) of which would be affordable pursuant to Mandatory Inclusionary Housing (MIH) at an average of 60-80% AMI (Area Median Income) depending on the Option selected. The Applicant intends to pursue MIH Option 2, which would result in 16 affordable units to be set aside for families making 80% of the AMI. However, the Applicant intends to provide 18 affordable units at an average of 80% AMI.

Project Location

BOROUGH Brooklyn	COMMUNITY DISTRICT(S) 3	STREET ADDRESS 703 Myrtle Avenue
TAX BLOCK(S) AND LOT(S) Block 1735, Lots 33, 34, 35, 32, 36, 37,		ZIP CODE 11205

38, and 39

DESCRIPTION OF PROPERTY BY BOUNDING OR CROSS STREETS Myrtle Avenue to the south, Walworth Street to the east, Park Avenue to north, and Spencer Street to the west

EXISTING ZONING DISTRICT, INCLUDING SPECIAL ZONING DISTRICT DESIGNATION, IF ANY M1-1 | ZONING SECTIONAL MAP NUMBER 13b

6. *Required Actions or Approvals* (check all that apply)

***City Planning Commission*:** ☒ YES ☐ NO ☒ UNIFORM LAND USE REVIEW PROCEDURE (ULURP)

- ☐ CITY MAP AMENDMENT
- ☒ ZONING MAP AMENDMENT
- ☒ ZONING TEXT AMENDMENT
- ☐ SITE SELECTION—PUBLIC FACILITY
- ☐ HOUSING PLAN & PROJECT
- ☐ SPECIAL PERMIT (if appropriate, specify type: ☐ modification; ☐ renewal; ☐ other); EXPIRATION DATE:
- ☐ ZONING CERTIFICATION
- ☐ ZONING AUTHORIZATION
- ☐ ACQUISITION—REAL PROPERTY
- ☐ DISPOSITION—REAL PROPERTY
- ☐ OTHER, explain:
- ☐ CONCESSION
- ☐ UDAAP
- ☐ REVOCABLE CONSENT
- ☐ FRANCHISE

SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION

***Board of Standards and Appeals*:** ☐ YES ☒ NO

- ☐ VARIANCE (use)
- ☐ VARIANCE (bulk)
- ☐ SPECIAL PERMIT (if appropriate, specify type: ☐ modification; ☐ renewal; ☐ other); EXPIRATION DATE:

SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION

***Department of Environmental Protection*:** ☐ YES ☒ NO ☐ Cogeneration Facility ☐ Title V Permit

Other City Approvals Subject to CEQR (check all that apply)

- ☐ LEGISLATION
- ☐ RULEMAKING
- ☐ CONSTRUCTION OF PUBLIC FACILITIES
- ☐ 384(b)(4) APPROVAL
- ☐ OTHER, explain:
- ☐ FUNDING OF CONSTRUCTION, specify:
- ☐ POLICY OR PLAN, specify:
- ☐ FUNDING OF PROGRAMS, specify:
- ☐ PERMITS, specify:

Other City Approvals Not Subject to CEQR (check all that apply)

- ☐ PERMITS FROM DOT'S OFFICE OF CONSTRUCTION MITIGATION AND COORDINATION (OCMC)
- ☐ LANDMARKS PRESERVATION COMMISSION APPROVAL
- ☐ OTHER, explain:

***State or Federal Actions/Approvals/Funding*:** ☐ YES ☒ NO If "yes," specify:

7. *Site Description:* *The directly affected area consists of the project site and the area subject to any change in regulatory controls. Except where otherwise indicated, provide the following information with regard to the directly affected area.*

***Graphics*:** *The following graphics must be attached and each box must be checked off before the EAS is complete. Each map must clearly depict the boundaries of the directly affected area or areas and indicate a 400-foot radius drawn from the outer boundaries of the project site. Maps may not exceed 11 x 17 inches in size and, for paper filings, must be folded to 8.5 x 11 inches.*

- ☒ SITE LOCATION MAP
- ☒ TAX MAP
- ☒ PHOTOGRAPHS OF THE PROJECT SITE TAKEN WITHIN 6 MONTHS OF EAS SUBMISSION AND KEYED TO THE SITE LOCATION MAP
- ☒ ZONING MAP
- ☐ FOR LARGE AREAS OR MULTIPLE SITES, A GIS SHAPE FILE THAT DEFINES THE PROJECT SITE(S)
- ☒ SANBORN OR OTHER LAND USE MAP

Physical Setting (both developed and undeveloped areas)

Total directly affected area (sq. ft.): 21,550 within Affected Area; 8,620 on Projected Site 1, 4,800 Projected Site 2

Waterbody area (sq. ft) and type:

Roads, buildings, and other paved surfaces (sq. ft.):

Other, describe (sq. ft.):

8. *Physical Dimensions and Scale of Project* (if the project affects multiple sites, provide the total development facilitated by the action)

SIZE OF PROJECT TO BE DEVELOPED (gross square feet): 103,545

NUMBER OF BUILDINGS: 2 buildings

GROSS FLOOR AREA OF EACH BUILDING (sq. ft.): 72,349 (Projected Site 1), 31,196 (Projected Site 2)

HEIGHT OF EACH BUILDING (ft.): 115

NUMBER OF STORIES OF EACH BUILDING: 11 stories

Does the proposed project involve changes in zoning on one or more sites? ☒ YES ☐ NO

If "yes," specify: The total square feet owned or controlled by the applicant: 8,620

The total square feet not owned or controlled by the applicant: 12,930

Does the proposed project involve in-ground excavation or subsurface disturbance, including, but not limited to foundation work, pilings, utility lines, or grading? ☒ YES ☐ NO

If "yes," indicate the estimated area and volume dimensions of subsurface permanent and temporary disturbance (if known):
AREA OF TEMPORARY DISTURBANCE: 13,420 sq. ft. (width x length) VOLUME OF DISTURBANCE: 134,200 cubic ft. (width x length x depth)
AREA OF PERMANENT DISTURBANCE: 13,420 sq. ft. (width x length)

Description of Proposed Uses (please complete the following information as appropriate)

	Residential	***Commercial***	***Community Facility***	***Industrial/Manufacturing***
Size (in gross sq. ft.)	71,070 (net increment)	12,641 (net increment)		
Type (*e.g.,* retail, office, school)	86 units	retail		

Does the proposed project increase the population of residents and/or on-site workers? ☒ YES ☐ NO
If "yes," please specify: NUMBER OF ADDITIONAL RESIDENTS: 220 NUMBER OF ADDITIONAL WORKERS: 38
Provide a brief explanation of how these numbers were determined: based on 3 employees per 1,000 SF retail and 2.56 residents per dwelling unit per 2020 Census data for Brooklyn community district 3

Does the proposed project create new open space? ☐ YES ☒ NO If "yes," specify size of project-created open space: sq. ft.

Has a No-Action scenario been defined for this project that differs from the existing condition? ☐ YES ☒ NO
If "yes," see Chapter 2, "Establishing the Analysis Framework" and describe briefly:

9. *Analysis Year* CEQR Technical Manual Chapter 2

ANTICIPATED BUILD YEAR (date the project would be completed and operational): 2027

ANTICIPATED PERIOD OF CONSTRUCTION IN MONTHS: Approximately 18 months for Projected Site 1 and 18 months for Projected Site 2 (Non-Simultaneous)

WOULD THE PROJECT BE IMPLEMENTED IN A SINGLE PHASE? ☐ YES ☒ NO IF MULTIPLE PHASES, HOW MANY? 2

BRIEFLY DESCRIBE PHASES AND CONSTRUCTION SCHEDULE: The analysis year for the Proposed Actions is 2027 based on an 18-month environmental and ULURP review process, followed by an approximately 18-month construction schedule for Projected Site 1 with construction complete by November 2024. Projected Site 2 is anticipated to begin construction in May of 2026 following design, financing, and lot assemblage, with construction complete within 18 months by December of 2027.

10. *Predominant Land Use in the Vicinity of the Project* (check all that apply)
☒ RESIDENTIAL ☒ MANUFACTURING ☒ COMMERCIAL ☐ PARK/FOREST/OPEN SPACE ☒ OTHER, specify: Community facility

Part II: TECHNICAL ANALYSIS

INSTRUCTIONS: For each of the analysis categories listed in this section, assess the proposed project's impacts based on the thresholds and criteria presented in the CEQR Technical Manual. Check each box that applies.

- If the proposed project can be demonstrated not to meet or exceed the threshold, check the "no" box.
- If the proposed project will meet or exceed the threshold, or if this cannot be determined, check the "yes" box.
- For each "yes" response, provide additional analyses (and, if needed, attach supporting information) based on guidance in the CEQR Technical Manual to determine whether the potential for significant impacts exists. Please note that a "yes" answer does not mean that an EIS must be prepared—it means that more information may be required for the lead agency to make a determination of significance.
- The lead agency, upon reviewing Part II, may require an applicant to provide additional information to support the Short EAS Form. For example, if a question is answered "no," an agency may request a short explanation for this response.

	YES	NO
1. *LAND USE, ZONING, AND PUBLIC POLICY*: CEQR Technical Manual Chapter 4		
(a) Would the proposed project result in a change in land use different from surrounding land uses?	☐	☒
(b) Would the proposed project result in a change in zoning different from surrounding zoning?	☒	☐
(c) Is there the potential to affect an applicable public policy?	☒	☐
(d) If "yes," to (a), (b), and/or (c), complete a preliminary assessment and attach.		
(e) Is the project a large, publicly sponsored project?	☐	☒
○ If "yes," complete a PlaNYC assessment and attach.		
(f) Is any part of the directly affected area within the City's Waterfront Revitalization Program boundaries?	☐	☒
○ If "yes," complete the Consistency Assessment Form.		
2. *SOCIOECONOMIC CONDITIONS*: CEQR Technical Manual Chapter 5		
(a) Would the proposed project:		
○ Generate a net increase of 200 or more residential units?	☐	☒
○ Generate a net increase of 200,000 or more square feet of commercial space?	☐	☒
○ Directly displace more than 500 residents?	☐	☒
○ Directly displace more than 100 employees?	☐	☒
○ Affect conditions in a specific industry?	☐	☒
3. *COMMUNITY FACILITIES*: CEQR Technical Manual Chapter 6		
(a) Direct Effects		
○ Would the project directly eliminate, displace, or alter public or publicly funded community facilities such as educational facilities, libraries, hospitals and other health care facilities, day care centers, police stations, or fire stations?	☐	☒
(b) Indirect Effects		
○ **Early Childhood Programs:** Would the project result in 20 or more eligible children under age 6, based on the number of low or low/moderate income residential units? (See Table 6-1 in Chapter 6)	☐	☒
○ **Public Schools:** Would the project result in 50 or more elementary or middle school students, or 150 or more high school students based on number of residential units? (See Table 6-1 in Chapter 6)	☐	☒
○ **Libraries:** Would the project result in a 5 percent or more increase in the ratio of residential units to library branches? (See Table 6-1 in Chapter 6)	☐	☒
○ **Health Care Facilities and Fire/Police Protection:** Would the project result in the introduction of a sizeable new neighborhood?	☐	☒
4. *OPEN SPACE*: CEQR Technical Manual Chapter 7		
(a) Would the project change or eliminate existing open space?	☐	☒
(b) Would the project generate more than 200 additional residents or 500 additional employees?	☒	☐
5. *SHADOWS*: CEQR Technical Manual Chapter 8		
(a) Would the proposed project result in a net height increase of any structure of 50 feet or more?	☒	☐
(b) Would the proposed project result in any increase in structure height and be located adjacent to or across the street from a sunlight-sensitive resource?	☐	☒
6. *HISTORIC AND CULTURAL RESOURCES*: CEQR Technical Manual Chapter 9		

	YES	NO
(a) Does the proposed project site or an adjacent site contain any architectural and/or archaeological resource that is eligible for or has been designated (or is calendared for consideration) as a New York City Landmark, Interior Landmark or Scenic Landmark; that is listed or eligible for listing on the New York State or National Register of Historic Places; or that is within a designated or eligible New York City, New York State or National Register Historic District? (See the GIS System for Archaeology and National Register to confirm)	☐	☒
(b) Would the proposed project involve construction resulting in in-ground disturbance to an area not previously excavated?	☒	☐
(c) If "yes" to either of the above, list any identified architectural and/or archaeological resources and attach supporting information on whether the proposed project would potentially affect any architectural or archeological resources. See attached		
7. *URBAN DESIGN AND VISUAL RESOURCES*: CEQR Technical Manual Chapter 10		
(a) Would the proposed project introduce a new building, a new building height, or result in any substantial physical alteration to the streetscape or public space in the vicinity of the proposed project that is not currently allowed by existing zoning?	☒	☐
(b) Would the proposed project result in obstruction of publicly accessible views to visual resources not currently allowed by existing zoning?	☐	☒
8. *NATURAL RESOURCES*: CEQR Technical Manual Chapter 11		
(a) Does the proposed project site or a site adjacent to the project contain natural resources as defined in Section 100 of Chapter 11?	☐	☒
○ If "yes," list the resources and attach supporting information on whether the proposed project would affect any of these resources.		
(b) Is any part of the directly affected area within the Jamaica Bay Watershed?	☐	☒
○ If "yes," complete the Jamaica Bay Watershed Protection Plan Project Tracking Form, and submit according to its instructions.		
9. *HAZARDOUS MATERIALS*: CEQR Technical Manual Chapter 12		
(a) Would the proposed project allow commercial or residential uses in an area that is currently, or was historically, a manufacturing area that involved hazardous materials?	☒	☐
(b) Would the proposed project introduce new activities or processes using hazardous materials and increase the risk of human or environmental exposure?	☐	☒
(c) Does the proposed project site have existing institutional controls (*e.g.*, (E) designation or Restrictive Declaration) relating to hazardous materials that preclude the potential for significant adverse impacts?	☐	☒
(d) Would the project require soil disturbance in a manufacturing area or any development on or near a manufacturing area or existing/historic facilities listed in the Hazardous Materials Appendix (including nonconforming uses)?	☒	☐
(e) Would the project result in the development of a site where there is reason to suspect the presence of hazardous materials, contamination, illegal dumping or fill, or fill material of unknown origin?	☐	☒
(f) Would the project result in development on or near a site that has or had underground and/or aboveground storage tanks (*e.g.*, gas stations, oil storage facilities, heating oil storage)?	☐	☒
(g) Would the project result in renovation of interior existing space on a site with the potential for compromised air quality; vapor intrusion from either on-site or off-site sources; or the presence of asbestos, PCBs, mercury or lead-based paint?	☐	☒
(h) Would the project result in development on or near a site with potential hazardous materials issues such as government-listed voluntary cleanup/brownfield site, current or former power generation/transmission facilities, coal gasification or gas storage sites, railroad tracks or rights-of-way, or municipal incinerators?	☐	☒
(i) Has a Phase I Environmental Site Assessment been performed for the site?	☒	☐
○ If "yes," were Recognized Environmental Conditions (RECs) identified? Briefly identify: No RECs were identified. The presence of VECs could not be ruled out.	☐	☒
(j) Based on the Phase I Assessment, is a Phase II Investigation needed? Yes	☒	☐
10. *WATER AND SEWER INFRASTRUCTURE*: CEQR Technical Manual Chapter 13		
(a) Would the project result in water demand of more than one million gallons per day?	☐	☒
(b) If the proposed project located in a combined sewer area, would it result in at least 1,000 residential units or 250,000 square feet or more of commercial space in Manhattan, or at least 400 residential units or 150,000 square feet or more of commercial space in the Bronx, Brooklyn, Staten Island, or Queens?	☐	☒
(c) If the proposed project located in a separately sewered area, would it result in the same or greater development than the amounts listed in Table 13-1 in Chapter 13?	☐	☐
(d) Would the proposed project involve development on a site that is 5 acres or larger where the amount of impervious surface would increase?	☐	☒
(e) If the project is located within the Jamaica Bay Watershed or in certain specific drainage areas, including Bronx River, Coney Island Creek, Flushing Bay and Creek, Gowanus Canal, Hutchinson River, Newtown Creek, or Westchester Creek, would it involve development on a site that is 1 acre or larger where the amount of impervious surface would increase?	☐	☒
(f) Would the proposed project be located in an area that is partially sewered or currently unsewered?	☐	☒

	YES	NO
(g) Is the project proposing an industrial facility or activity that would contribute industrial discharges to a Wastewater Treatment Plant and/or generate contaminated stormwater in a separate storm sewer system?	☐	☒
(h) Would the project involve construction of a new stormwater outfall that requires federal and/or state permits?	☐	☒
11. *SOLID WASTE AND SANITATION SERVICES*: CEQR Technical Manual Chapter 14		
(a) Using Table 14-1 in Chapter 14, the project's projected operational solid waste generation is estimated to be (pounds per week): 6,528 = (38 retail employees X 79 pounds per week) + (86 households X 41 pounds per week)		
○ Would the proposed project have the potential to generate 100,000 pounds (50 tons) or more of solid waste per week?	☐	☒
(b) Would the proposed project involve a reduction in capacity at a solid waste management facility used for refuse or recyclables generated within the City?	☐	☒
12. *ENERGY*: CEQR Technical Manual Chapter 15		
(a) Using energy modeling or Table 15-1 in Chapter 15, the project's projected energy use is estimated to be (annual BTUs): 11738817.3 = (216.3 commercial X 12,641) + (126.7 residential X 71,070)		
(b) Would the proposed project affect the transmission or generation of energy?	☐	☒
13. *TRANSPORTATION*: CEQR Technical Manual Chapter 16		
(a) Would the proposed project exceed any threshold identified in Table 16-1 in Chapter 16?	☒	☐
(b) If "yes," conduct the screening analyses, attach appropriate back up data as needed for each stage and answer the following questions:		
○ Would the proposed project result in 50 or more Passenger Car Equivalents (PCEs) per project peak hour?	☒	☐
If "yes," would the proposed project result in 50 or more vehicle trips per project peak hour at any given intersection? ***It should be noted that the lead agency may require further analysis of intersections of concern even when a project generates fewer than 50 vehicles in the peak hour. See Subsection 313 of Chapter 16 for more information.*	☐	☒
○ Would the proposed project result in more than 200 subway/rail, bus trips, or 50 Citywide Ferry Service ferry trips per project peak hour?	☐	☒
If "yes," would the proposed project result, per project peak hour, in 50 or more bus trips on a single line (in one direction), 200 subway/rail trips per station or line, or 25 or more Citywide Ferry Service ferry trips on a single route (in one direction), or 50 or more passengers at a Citywide Ferry Service landing?	☐	☐
○ Would the proposed project result in more than 200 pedestrian trips per project peak hour?	☒	☐
If "yes," would the proposed project result in more than 200 pedestrian trips per project peak hour to any given pedestrian or transit element, crosswalk, subway stair, or bus stop, or Citywide Ferry Service landing?	☒	☐
14. *AIR QUALITY*: CEQR Technical Manual Chapter 17		
(a) *Mobile Sources*: Would the proposed project result in the conditions outlined in Section 210 in Chapter 17?	☐	☒
(b) *Stationary Sources*: Would the proposed project result in the conditions outlined in Section 220 in Chapter 17?	☒	☐
○ If "yes," would the proposed project exceed the thresholds in Figure 17-3, Stationary Source Screen Graph in Chapter 17? (Attach graph as needed)	☐	☒
(c) Does the proposed project involve multiple buildings on the project site?	☐	☒
(d) Does the proposed project require federal approvals, support, licensing, or permits subject to conformity requirements?	☐	☒
(e) Does the proposed project site have existing institutional controls (*e.g.*, (E) designation or Restrictive Declaration) relating to air quality that preclude the potential for significant adverse impacts?	☐	☒
15. *GREENHOUSE GAS EMISSIONS*: CEQR Technical Manual Chapter 18		
(a) Is the proposed project a city capital project or a power generation plant?	☐	☒
(b) Would the proposed project fundamentally change the City's solid waste management system?	☐	☒
(c) If "yes" to any of the above, would the project require a GHG emissions assessment based on the guidance in Chapter 18?	☐	☐
16. *NOISE*: CEQR Technical Manual Chapter 19		
(a) Would the proposed project generate or reroute vehicular traffic?	☒	☐
(b) Would the proposed project introduce new or additional receptors (see Section 114 in Chapter 19) near heavily trafficked roadways, within one horizontal mile of an existing or proposed flight path, or within 1,500 feet of an existing or proposed rail line with a direct line of site to that rail line?	☒	☐
(c) Would the proposed project cause a stationary noise source to operate within 1,500 feet of a receptor with a direct line of sight to that receptor or introduce receptors into an area with high ambient stationary noise?	☐	☒
(d) Does the proposed project site have existing institutional controls (*e.g.*, (E) designation or Restrictive Declaration) relating to noise that preclude the potential for significant adverse impacts?	☐	☒

	YES	NO
17. *PUBLIC HEALTH*: CEQR Technical Manual Chapter 20		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Air Quality; Hazardous Materials; Noise?	☐	☒
(b) If "yes," explain why an assessment of public health is or is not warranted based on the guidance in Chapter 20, "Public Health." Attach a preliminary analysis, if necessary. The proposed project does not have the potential for significant adverse impacts in the technical areas above as noted in the attached Supplemental Analyses. In addition, the project would not result in the combination of moderate adverse impacts in the technical areas to have the potential to significantly affect public health. Therefore, an assessment of public health is not warranted.		
18. *NEIGHBORHOOD CHARACTER*: CEQR Technical Manual Chapter 21		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Land Use, Zoning, and Public Policy; Socioeconomic Conditions; Open Space; Historic and Cultural Resources; Urban Design and Visual Resources; Shadows; Transportation; Noise?	☐	☒
(b) If "yes," explain why an assessment of neighborhood character is or is not warranted based on the guidance in Chapter 21, "Neighborhood Character." Attach a preliminary analysis, if necessary. There would be no significant impacts to any of the constituent elements of Neighborhood Character.		
19. *CONSTRUCTION*: CEQR Technical Manual Chapter 22		
(a) Would the project's construction activities involve:		
○ Construction activities lasting longer than two years?	☐	☒
○ Construction activities within a Central Business District or along an arterial highway or major thoroughfare?	☒	☐
○ Closing, narrowing, or otherwise impeding traffic, transit, or pedestrian elements (roadways, parking spaces, bicycle routes, sidewalks, crosswalks, corners, *etc.*)?	☐	☒
○ Construction of multiple buildings where there is a potential for on-site receptors on buildings completed before the final build-out?	☐	☒
○ The operation of several pieces of diesel equipment in a single location at peak construction?	☐	☒
○ Closure of a community facility or disruption in its services?	☐	☒
○ Activities within 400 feet of a historic or cultural resource?	☐	☒
○ Disturbance of a site containing or adjacent to a site containing natural resources?	☐	☒
○ Construction on multiple development sites in the same geographic area, such that there is the potential for several construction timelines to overlap or last for more than two years overall?	☐	☒
(b) If any boxes are checked "yes," explain why a preliminary construction assessment is or is not warranted based on the guidance in Chapter 22, "Construction." It should be noted that the nature and extent of any commitment to use the Best Available Technology for construction equipment or Best Management Practices for construction activities should be considered when making this determination. See attached		

20. *APPLICANT'S CERTIFICATION*

I swear or affirm under oath and subject to the penalties for perjury that the information provided in this Environmental Assessment Statement (EAS) is true and accurate to the best of my knowledge and belief, based upon my personal knowledge and familiarity with the information described herein and after examination of the pertinent books and records and/or after inquiry of persons who have personal knowledge of such information or who have examined pertinent books and records.

Still under oath, I further swear or affirm that I make this statement in my capacity as the applicant or representative of the entity that seeks the permits, approvals, funding, or other governmental action(s) described in this EAS.

APPLICANT/REPRESENTATIVE NAME	DATE
Amber Kartalyan, Equity Environmental Engineering	4/18/2023

SIGNATURE Amber Kartalyan

PLEASE NOTE THAT APPLICANTS MAY BE REQUIRED TO SUBSTANTIATE RESPONSES IN THIS FORM AT THE DISCRETION OF THE LEAD AGENCY SO THAT IT MAY SUPPORT ITS DETERMINATION OF SIGNIFICANCE.

Part III: DETERMINATION OF SIGNIFICANCE (To Be Completed by Lead Agency)

INSTRUCTIONS: In completing Part III, the lead agency should consult 6 NYCRR 617.7 and 43 RCNY § 6-06 (Executive Order 91 or 1977, as amended), which contain the State and City criteria for determining significance.

1. For each of the impact categories listed below, consider whether the project may have a significant adverse effect on the environment, taking into account its (a) location; (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude.

IMPACT CATEGORY	Potentially Significant Adverse Impact YES	NO
Land Use, Zoning, and Public Policy	☐	☒
Socioeconomic Conditions	☐	☒
Community Facilities and Services	☐	☒
Open Space	☐	☒
Shadows	☐	☒
Historic and Cultural Resources	☐	☒
Urban Design/Visual Resources	☐	☒
Natural Resources	☐	☒
Hazardous Materials	☐	☒
Water and Sewer Infrastructure	☐	☒
Solid Waste and Sanitation Services	☐	☒
Energy	☐	☒
Transportation	☐	☒
Air Quality	☐	☒
Greenhouse Gas Emissions	☐	☒
Noise	☐	☒
Public Health	☐	☒
Neighborhood Character	☐	☒
Construction	☐	☒

2. Are there any aspects of the project relevant to the determination of whether the project may have a significant impact on the environment, such as combined or cumulative impacts, that were not fully covered by other responses and supporting materials? ☐ YES ☒ NO

If there are such impacts, attach an explanation stating whether, as a result of them, the project may have a significant impact on the environment.

3. Check determination to be issued by the lead agency:

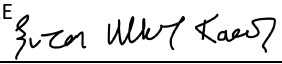
☐ **Positive Declaration**: If the lead agency has determined that the project may have a significant impact on the environment, and if a Conditional Negative Declaration is not appropriate, then the lead agency issues a *Positive Declaration* and prepares a draft Scope of Work for the Environmental Impact Statement (EIS).

☐ **Conditional Negative Declaration:** A *Conditional Negative Declaration* (CND) may be appropriate if there is a private applicant for an Unlisted action AND when conditions imposed by the lead agency will modify the proposed project so that no significant adverse environmental impacts would result. The CND is prepared as a separate document and is subject to the requirements of 6 NYCRR Part 617.

☒ **Negative Declaration:** If the lead agency has determined that the project would not result in potentially significant adverse environmental impacts, then the lead agency issues a *Negative Declaration*. The *Negative Declaration* may be prepared as a separate document (see template) or using the embedded Negative Declaration on the next page.

4. ***LEAD AGENCY'S CERTIFICATION***

TITLE	LEAD AGENCY
Deputy Director, Environmental Assessment and Review Division	Department of City Planning on behalf of the City Planning Commission
NAME	DATE
Evren Ulker-Kacar, AICP - Deputy Director	April 20, 2023

SIGNATURE 

NEGATIVE DECLARATION

Statement of No Significant Effect

Pursuant to Executive Order 91 of 1977, as amended, and the Rules of Procedure for City Environmental Quality Review, found at Title 62, Chapter 5 of the Rules of the City of New York and 6 NYCRR, Part 617, State Environmental Quality Review, the Department of City Planning acting on behalf of the City Planning Commission assumed the role of lead agency for the environmental review of the proposed actions. Based on a review of information about the project contained in this environmental assessment statement (EAS) and any attachments hereto, which are incorporated by reference herein, the lead agency has determined that the proposed actions would not have a significant adverse impact on the environment.

Reasons Supporting this Determination

The above determination is based on information contained in this EAS, which finds the proposed actions sought before the City Planning Commission would not have a significant adverse impact on the environment. Reasons supporting this determination are noted below.

Land Use, Zoning, and Public Policy

A detailed analysis of land use, zoning, and public policy is included in the EAS. The applicant, Ranco Capital LLC, is seeking a Zoning Map Amendment to rezone Brooklyn Block 1735 Lots 33, 34, and 35 as well as portions of Lots 32, 36, 37, 38, and 39 (the "Rezoning Area") from M-1 to R7D/C2-4, as well as a Zoning Text Amendment to Appendix F of the New York City Zoning Resolution to establish a Mandatory Inclusionary Housing (MIH) area coterminous with the Rezoning Area (collectively the "Proposed Actions"). The Proposed Actions would facilitate development of a new 11-story, 115-foot-tall, 72,349 gross square foot (gsf) mixed-use residential and commercial building at 703 Myrtle Avenue (Projected Development Site 1), Block 1735 Lot 39, in the Bedford-Stuyvesant neighborhood of Brooklyn Community District 3. The Proposed Actions would facilitate the construction of 13-20 permanently affordable dwelling units within the applicant-owned Projected Development Site 1 depending on the MIH option selected. In addition to Projected Development Site 1, one other Projected Development Site was identified and analyzed for a conservative CEQR analysis. Projected Development Site 2 analyzes an assemblage of Block 1735 Lots 33, 34, and 35 and the development of a new 11-story, 115-foot-tall, 31,196 gsf mixed-use residential and commercial building. The development and uses facilitated by the Proposed Actions would be consistent with existing mixed residential and commercial retail uses on Myrtle Avenue and in the surrounding area. While the Proposed Actions would allow for an increase in development and bulk relative to the No-Action scenario, the proposed R7D/C2-4 district would establish a medium-density residential district with a commercial overlay that would be consistent with a R7D/C2-4 district mapped along Myrtle Avenue immediately east of the Rezoning Area. The Proposed Actions would be compatible and consistent with public policies that currently apply to the Rezoning Area and the surrounding area, including the City's goals to facilitate the construction of permanently affordable dwelling units. The Proposed Actions would not result in significant adverse impacts to land use, zoning, and public policy, and no further analysis is warranted.

Hazardous Materials, Air Quality, and Noise

An (E) designation (E-695) related to hazardous materials, air quality, and noise would be established as part of the approval of the proposed actions. Refer to "Determination of Significance Appendix: (E) designation" for the applicable (E) designation requirements. The hazardous materials, air quality, and noise analyses conclude that with the (E) designation in place, the proposed actions would not result in a significant adverse impact related to hazardous materials, air quality, or noise.

No other significant effects upon the environment that would require the preparation of a Draft Environmental Impact Statement are foreseeable. This Negative Declaration has been prepared in accordance with Article 8 of the New York State Environmental Conservation Law (SEQRA). Should you have any questions pertaining to this Negative Declaration, you may contact Sean O'Rourke at sorourke@planning.nyc.gov.

TITLE Deputy Director, Environmental Assessment and Review Division	LEAD AGENCY Department of City Planning on behalf of the City Planning Commission 120 Broadway, 31st Fl. New York, NY 10271 | 212.720.3493
NAME Evren Ulker-Kacar, AICP	DATE 4/21/2023
SIGNATURE Evren Ulker Kacar	
TITLE Chair, City Planning Commission	
NAME Daniel R. Garodnick	DATE 4/24/2023
SIGNATURE	

Project Name: 703 Myrtle Ave Rezoning
CEQR # 21DCP203K
SEQRA Classification: Unlisted

Determination of Significance Appendix

The Proposed Action(s) were determined to have the potential to result in changes to development on the following site(s):

Development Site	Borough	Block and Lot
Projected Development Site 1	Brooklyn	Block 1735, Lot 39
Projected Development Site 2	Brooklyn	Block 1735, Lots 33, 34, and 35

(E) Designation Requirements

To ensure that the proposed actions would not result in significant adverse impacts related to hazardous materials, air quality, and noise an (E) designation (**E-695**) would be established as part of approval of the proposed actions on **Projected Development Site 1** and **Projected Development Site 2** as described below:

Development Site	Hazardous Materials	Air Quality	Noise
Projected Development Site 1	X	X	X
Projected Development Site 2	X	X	x

Hazardous Materials

The (E) designation requirements applicable to **Projected Development Site 1** and **Projected Development Site 2** for hazardous materials would apply as follows:

Task 1-Sampling Protocol

The applicant submits to OER, for review and approval, a Phase I of the site along with a soil, groundwater and soil vapor testing protocol, including a description of methods and a site map with all sampling locations clearly and precisely represented. If site sampling is necessary, no sampling should begin until written approval of a protocol is received from OER. The number and location of samples should be selected to adequately characterize the site, specific sources of suspected contamination (i.e., petroleum based contamination and non-petroleum based contamination), and the remainder of the site's condition. The characterization should be complete enough to determine what remediation strategy (if any) is necessary after review of sampling data. Guidelines and criteria for selecting sampling locations and collecting samples are provided by OER upon request.

Task 2-Remediation Determination and Protocol

A written report with findings and a summary of the data must he submitted to OER after completion of the testing phase and laboratory analysis for review and approval. After receiving such results, a determination is made by OER if the results indicate that remediation is necessary. If OER determines that no remediation is necessary, written notice shall be given by OER.

If remediation is indicated from test results, a proposed remediation plan must be submitted to OER for review and approval. The applicant must complete such remediation as determined necessary by OER. The applicant should then provide proper documentation that the work has been satisfactorily completed.

A construction-related health and safety plan should be submitted to OER and would be implemented during excavation and construction activities to protect workers and the community from potentially significant adverse impacts associated with contaminated soil, groundwater and/or soil vapor. This plan would be submitted to OER prior to implementation.

Project Name: 703 Myrtle Ave Rezoning
CEQR # 21DCP203K
SEQRA Classification: Unlisted

Air Quality

The (E) designation requirements for air quality would apply as follows:

> ***Projected Development Site 1:*** *Any new residential or commercial development on the above-referenced property must exclusively use natural gas as the type of fuel for heating, ventilating, air conditioning (HVAC) system(s) and must be fitted with low NOx (30 ppm) burners, and ensure that the HVAC stack is located at the building's highest level and at least 98 feet above grade to avoid any potential significant adverse air quality impacts.*
>
> ***Projected Development Site 2:*** *Any new residential or commercial development on the above—referenced property must ensure that the heating, ventilating, air conditioning (HVAC), and hot water system(s), stack is located at the building's highest level and at least 118 feet above grade, and that the stack is located at least 30 feet from the western lot line of Lot 35 facing Spencer Street to avoid any potential significant adverse air quality impacts*

Noise

The (E) designation requirements for noise would apply as follows:

> ***Projected Development Site 1:*** *In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed-window condition with a minimum of 28 dB(A) window/wall attenuation on the southern façade facing Myrtle Avenue, the western façade facing Spencer Street, and the eastern façade facing Walworth Street within 50 feet of Myrtle Ave to maintain an interior noise level not greater than 45 dB(A). To maintain a closed-window condition, an alternate means of ventilation must be provided. Alternate means of ventilation includes, but is not limited to, central air conditioning.*
>
> ***Projected Development Site 2:*** *In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed-window condition with a minimum of 28 dB(A) window/wall attenuation on the southern façade facing Myrtle Avenue, the western façade facing Spencer Street within 50 feet of Myrtle Ave, and the eastern façade facing Walworth Street within 50 feet of Myrtle Ave to maintain an interior noise level not greater than 45 dB(A). To maintain a closed window condition, an alternate means of ventilation must be provided. Alternate means of ventilation includes, but is not limited to, central air conditioning.*

Figure 1: Site Location Map



Figure 2: Existing Land Use Map



Figure 3: Zoning Map

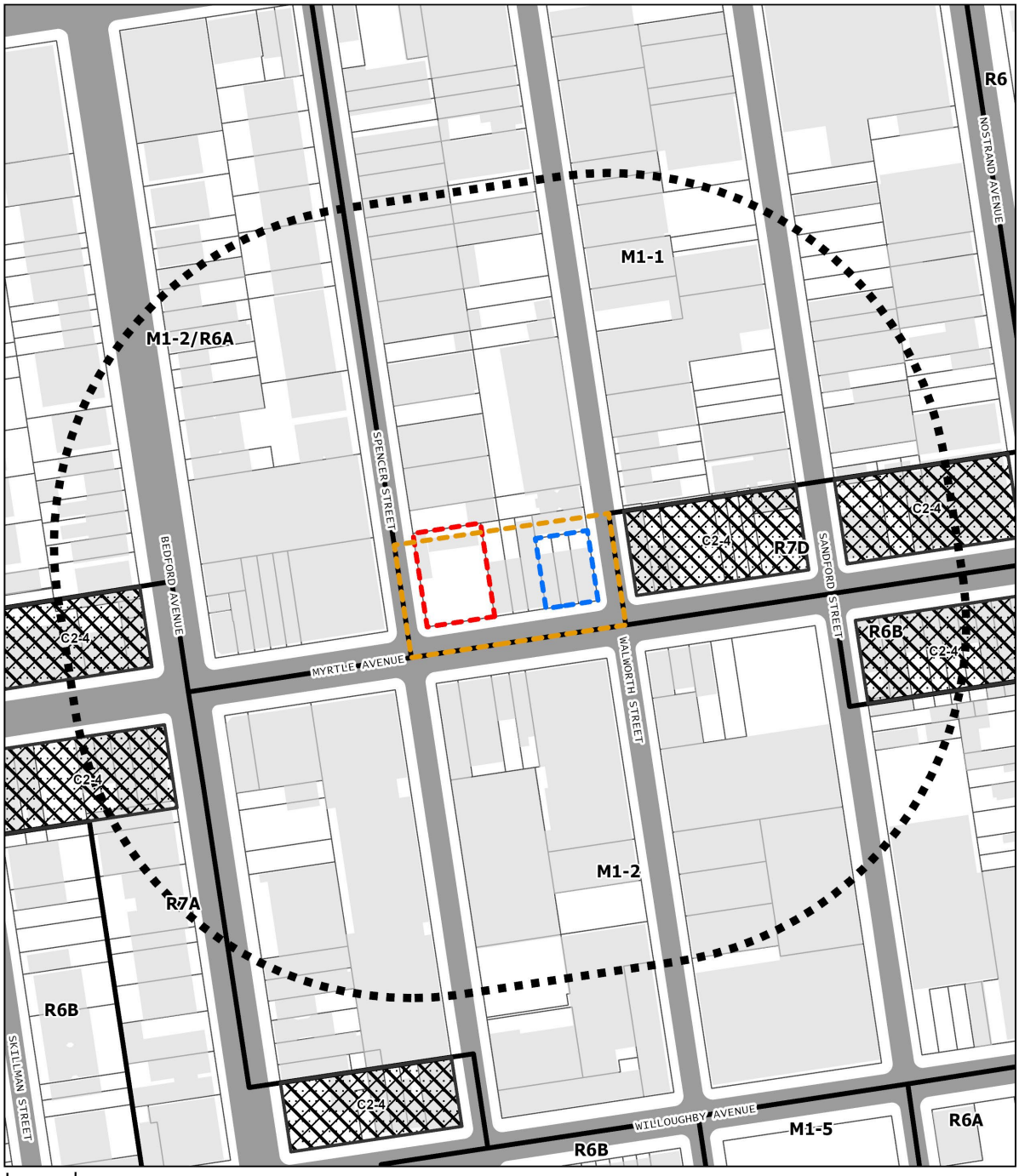


Figure 4: Tax Map

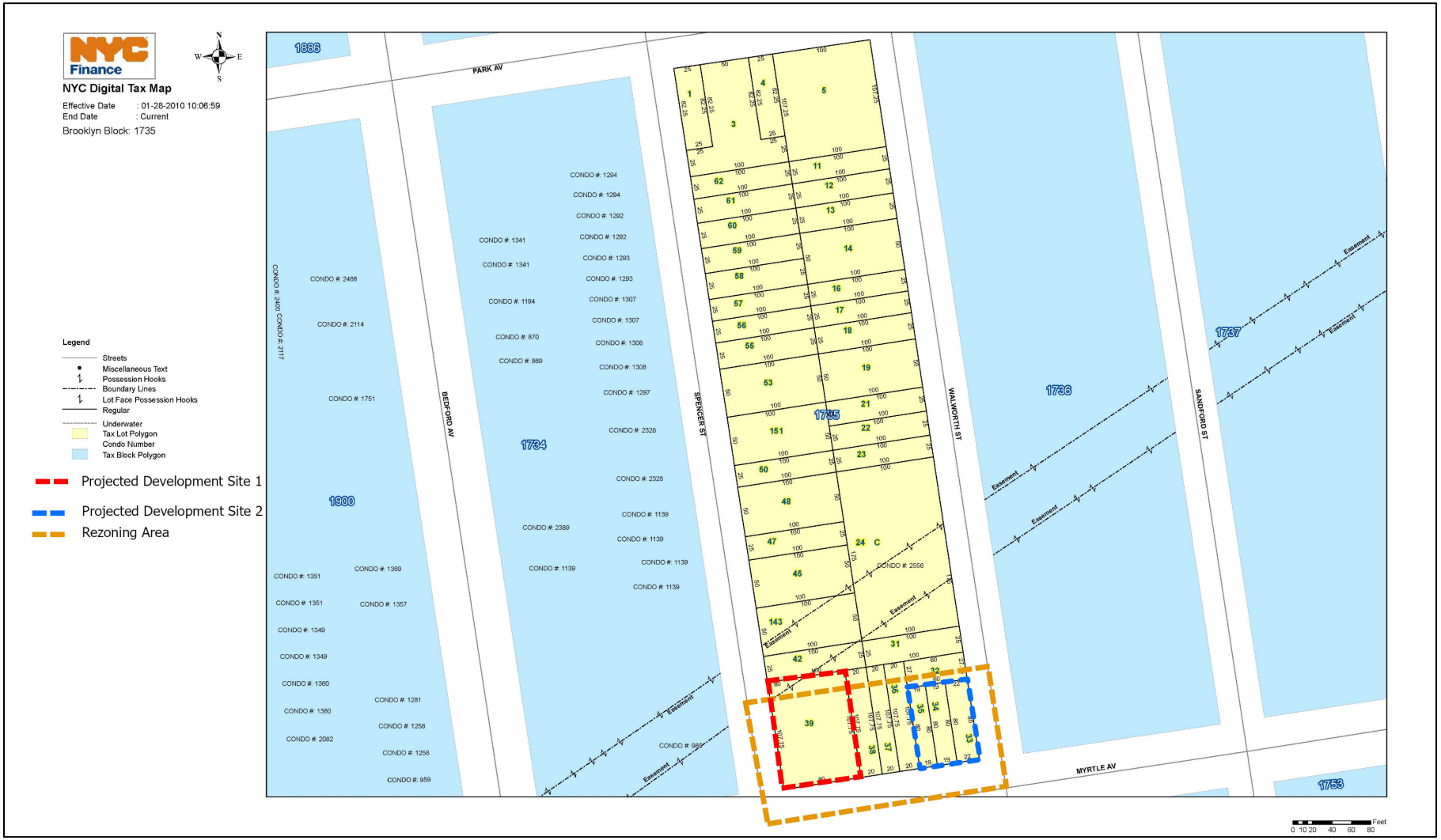


Figure 5-1: Site Photos



a Looking northwest toward the Development Site from Myrtle Ave & Spencer St.



b Looking north along Spencer Street with the Development Site on the right.



c Looking east along Myrtle Avenue from the intersection of Myrtle Ave. and Spencer St.

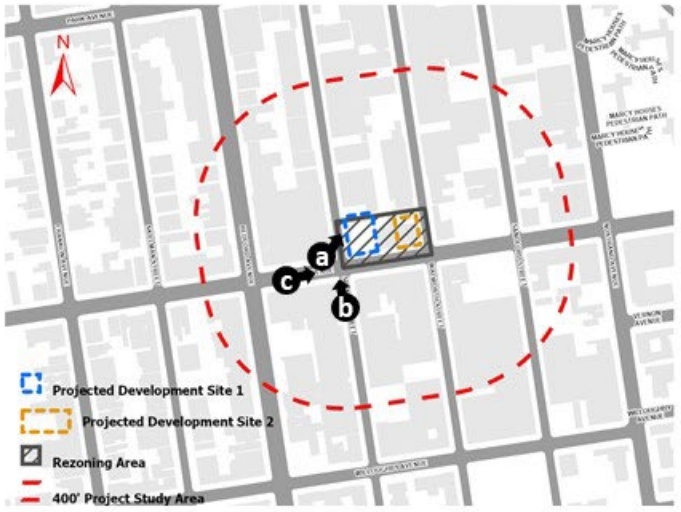


Photo Key

Figure 5-2: Site Photos



d Looking west along Myrtle Ave. near the intersection of Myrtle Ave. & Spencer St.



e Looking south along Spencer St. from the intersection of Spencer St. & Myrtle Ave.



f Looking north along Bedford Ave. from the intersection of Bedford Ave. & Myrtle Ave.

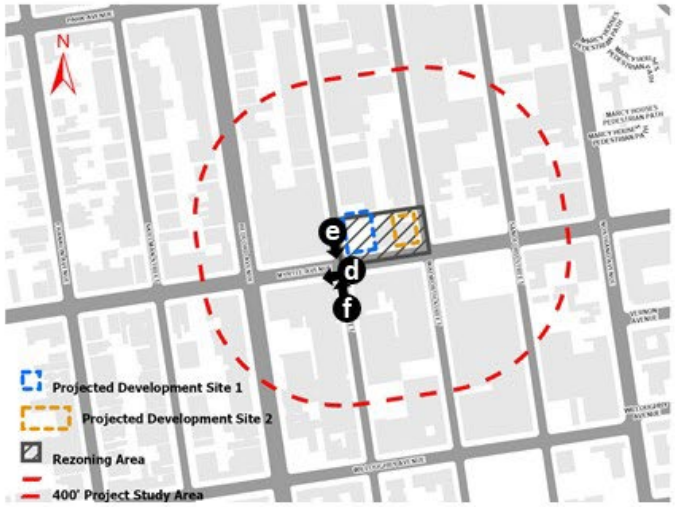


Photo Key

Figure 5-3: Site Photos



g Looking south along Bedford Ave. near the intersection of Bedford Ave. & Myrtle Ave.



h Looking west along Myrtle Ave. from the intersection of Myrtle Ave. and Bedford Ave.



i Looking north across Myrtle Ave. toward the Non-Applicant owned Affected Sites.

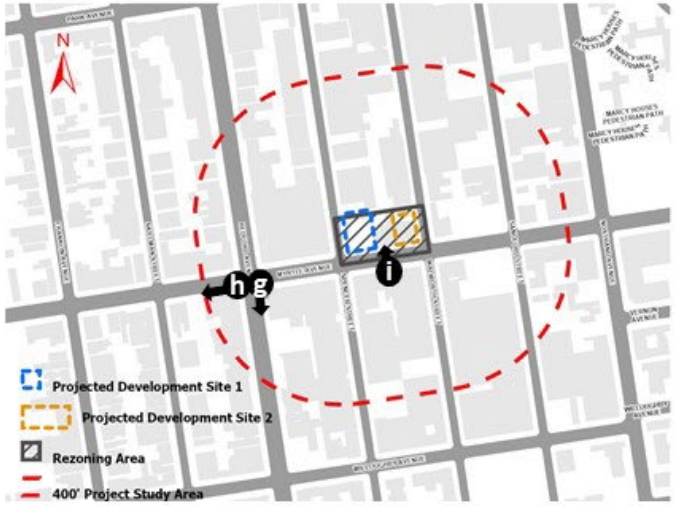


Photo Key

Figure 5-4: Site Photos



j Looking northwest toward the Affected Area from Myrtle Ave & Walworth St.



k Looking north along Walworth St. from the intersection of Myrtle Ave. & Walworth St.



l Looking south along Walworth St. from the intersection of Myrtle Ave and Walworth St.

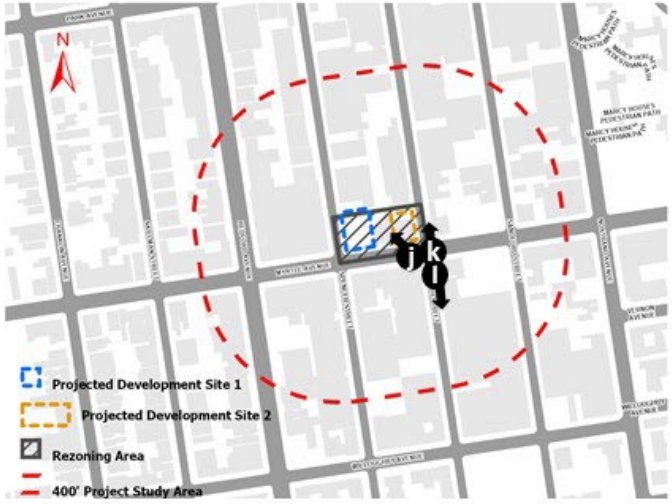


Photo Key

1.0 Project Description

1.1 Introduction

The Applicant, Ranco Capital LLC, is seeking the approval of a zoning map amendment and zoning text amendment (Proposed Actions) that would affect Block 1735, Lots 33, 34, and 35, and portions (p/o) of Lots 32, 36, 37, 38 and 39 (the Rezoning Area) in the Bedford-Stuyvesant neighborhood of Brooklyn, Community District 3. The Rezoning Area is bound by Myrtle Avenue to the south, Spencer Street to the west, Walworth Street to the east, and Park Avenue to the north.

The proposed zoning map amendment would rezone Block 1735; Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 from M1-1 to R7D/C2-4. The proposed zoning text amendment includes modifying Appendix F of the Zoning Resolution, Brooklyn CD 3 Map 13b to establish an area coterminous with the rezoning area as a Mandatory Inclusionary Housing (MIH) area for which Options 1 and 2 are being sought by the Applicant for maximum flexibility.

As indicated above, the Applicant Development Site (Projected Development Site 1) consists solely of Lot 39 of the Rezoning Area. The Proposed Actions would facilitate the development of Block 1735, Lot 39 with a new 8-story, 95'-6" mixed-use building with a total floor area of 66,884 gross square feet (GSF) (48,224 zoning square feet – "ZSF"; 5.60 FAR) mixed-use residential building with ground floor commercial space. The proposed development would include approximately 52,405 GSF or 43,755 ZSF (5.08 FAR) of residential floor area, 4,805 GSF (4,469 ZSF; 0.52 FAR) of commercial space, and 9,674 GSF of parking inclusive of a 1,610 GSF parking ramp at the first floor, and 11 off-street parking spaces in the proposed 8,064 GSF cellar. The Proposed Development would contain 54 dwelling units, 25-30% (14-16 units) of which would be affordable pursuant to Mandatory Inclusionary Housing (MIH) at an average of 60-80% AMI (Area Median Income) depending on the Option selected. The Applicant intends to pursue MIH Option 2, which would result in 16 affordable units to be set aside for families making 80% of the AMI. However, the Applicant intends to provide 18 affordable units at an average of 80% AMI.

The Proposed Actions are discretionary actions subject to environmental review. The New York City (NYC) Department of City Planning (DCP) is the lead agency on behalf of the NYC City Planning Commission (CPC) for environmental review under City Environmental Quality Review (CEQR).

1.2 Background

The Rezoning Area has been mapped with an M1-1 zoning district since 1961. Although currently vacant, NYC Department of Building (DOB) records indicating alteration and plumbing work dating back as early as 1931 suggest that the Projected Development Site was once occupied by a formal building of unknown use.

The area immediately surrounding the Proposed Project Area was subject to two rezonings that include the 2001 Flushing/Bedford Rezoning (ULURP: 000109ZMK, N000110ZRK; CEQR: 00DCP015K) and the 2017 723-733 Myrtle Avenue Rezoning (ULURP:170025ZMK; CEQR: 16DCP177K).
The 2001 Flushing/Bedford Rezoning affected 15 blocks of Brooklyn Community Districts 1 and 3 (including Block 1734 located directly across Spencer Street from the Proposed Project Area) and resulted in the zoning map amendment from M1-2 and M3-1 zoning districts to R7-1, M1-1 zoning districts and M1-2 zoning districts to an M1-2/R7-1 zoning district (Special Purpose District MX-4: Flushing/Bedford).

The 2017 723-733 Myrtle Avenue Rezoning affected entire or portions of 22 lots across three blocks (including Block 1736 east of the Rezoning Area across Sandford Street in addition to Blocks 1737 and 1753). The rezoning resulted in a zoning map amendment from M1-1 and M1-2 zoning districts to an R7D/C2-4 zoning district on the north side of Myrtle Avenue to facilitate the construction of a new 8-story 89,157 GSF mixed-use residential, commercial and community facility building on Block 1736, Lots 35, 37, 137, 38, and 39; and an R6B/C2-4 zoning district on the southern side of Myrtle Avenue over Block 1753, Lots 21, 22, 23, 24, 25, 26, 27, 28, and 30.

1.3 Surrounding Area

The Rezoning Area is located in an M1-1 light manufacturing zoning district. However, land uses in the 400-foot surrounding area are generally defined by the Rezoning Area's proximity to Myrtle Avenue to the south and a mix of multifamily residential buildings, commercial, and industrial/manufacturing uses. While the blocks west of Spencer Street are generally occupied by residential buildings, the majority of sites on the block of the Projected Development Site and blocks to the east and south are occupied by industrial/manufacturing uses and public facilities/institutions.

The area is well served by transit with several bus stops within one block of the Rezoning Area. The closest bus stop is for the B54 bus on the south side of the intersection of Myrtle Avenue and Spencer Street. The B54 bus operates between Sheepshead Bay and Williamsburg via Nostrand Avenue. The area is also served by the B44 bus, which operates between Downtown Brooklyn and Ridgewood via Bedford Avenue and Nostrand Avenue. The closest B44 bus stop is located on the south side of the intersection of Park Avenue and Bedford Avenue, which is approximately 720 feet northwest of the Projected Development Site. The closest subway station is served by the G-train that is located three blocks away (approximately 1,578 feet) from the Projected Development Site at the intersection of Myrtle Avenue and Marcy Avenue. The G-train operates between the intersection of Church Avenue and McDonald Street in Brooklyn and the Court Square subway station near the intersection of 21st Street and 44th Drive in Long Island City, Queens.

1.4 Description of the Rezoning Area

The Rezoning Area, Block 1735; Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39, is located in the Bedford-Stuyvesant neighborhood of Brooklyn, Community District 3. As noted earlier, the Rezoning Area is bound by Myrtle Avenue to the south, Spencer Street to the west, Walworth Street to the east, and Park

Avenue to the north. Myrtle Avenue is a single-lane two-way Principal Arterial Expressway with eastbound and westbound traffic and parking on both sides of the road. Spencer Street is a single-lane north-to-south Local Road with parking on both sides of the right-of-way. Walworth Street is a single-lane south-to-north Local Road with parking on both sides of the right-of-way. Park Avenue is a single-lane two-way Minor Arterial road with eastbound and westbound traffic and parking on both sides of the road.[1]

The Rezoning Area is comprised of eight lots totaling 21,550 SF. Projected Development Site 1, Lot 39, which is owned by the Applicant and is currently vacant is approximately 8,620 SF with approximately 80 feet of frontage along Myrtle Avenue and 108 feet of frontage along Spencer Street. The other seven affected lots are non-applicant-owned and are each under the control of a unique property owner. Those seven lots include Lots 32, 33, 34, 35, 36, 37, 38. Lot 32 is a 1,665 SF site that is occupied by a 2-story manufacturing/industrial building with approximately 3,000 GSF (2,880 ZSF; 1.80 FAR) of floor area. Lot 33 is a 1,760 SF site that is occupied by a 3-story mixed commercial and residential building containing two dwelling units and approximately 3,960 GSF (3,802 ZSF; 2.25 FAR) of floor area. Lot 34 is a 1,520 SF site that is occupied by a 3-story mixed commercial and residential building containing two dwelling units with approximately 3,420 GSF (3,283 ZSF; 2.25 FAR) of floor area. Lot 35 is a 1,520 SF site that is occupied by a 3-story mixed commercial and residential building containing two dwelling units with approximately 3,420 GSF (3,283 ZSF; 2.25 FAR) of floor area. Lot 36 is a 2,155 SF site that is occupied by a 3-story multifamily walk-up building containing three dwelling units and approximately 3,600 GSF (3,456 ZSF; 1.67 FAR) of floor area. Lot 37 is a 2,155 SF site that is occupied by a 3-story mixed commercial and residential building containing two dwelling units and approximately 3,600 GSF (3,456 ZSF; 1.67 FAR) of floor area. Lot 38 is a 2,155 SF site that is occupied by a 3-story mixed commercial and residential building containing two dwelling units and approximately 3,600 GSF (3,456 ZSF; 1.67) of floor area.

1.5 Description of the Proposed Project

The Applicant is seeking to construct an 8-story 95'-6" tall mixed-use building with a total floor area of 66,884 gross square feet (GSF) (48,224 zoning square feet – "ZSF"; 5.60 FAR) mixed-use residential building with ground floor commercial space. The building would contain approximately 52,405 GSF or 43,755 ZSF (5.08 FAR) of residential floor area. The proposed development would also include 4,805 GSF (4,469 ZSF; 0.52 FAR) of ground floor commercial space and, and 9,674 GSF of parking inclusive of a 1,610 GSF parking ramp at the first floor, and 11 off-street parking spaces in the proposed 8,064 GSF cellar. The Proposed Development would contain 54 dwelling units, 25-30% (14-16 units) of which would be affordable pursuant to Mandatory Inclusionary Housing (MIH) at an average of 60-80% AMI (Area Median Income) depending on the Option selected. The Applicant intends to pursue MIH Option 2, which would result in 16 affordable units to be set aside for families making 80% of the AMI. However, the Applicant intends to provide 18 affordable units at an average of 80% AMI.

[1] "Functional Classification – NYSDOT Region 11: Kings County." New York State Department of Transportation, May 2017. Web. 7 Oct. 2020. < https://www.dot.ny.gov/gisapps/functional-class-maps>.

1.6 Action(s) Necessary to Facilitate the Project

There are two actions necessary to facilitate the Proposed Development:

1. A Zoning Map Amendment to rezone Block 1735, Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 from an M1-1 zoning district to an R7D/C2-4 zoning district.
2. A Zoning Text Amendment to ZR Appendix F: Inclusionary Housing Designation Areas and Mandatory Inclusionary Housing Areas for Community District 3, Brooklyn, to establish the Rezoning Area as an MIH Area, Options 1 and 2.

1.7 Purpose and Need

The Proposed Development would not be possible under the existing M1-1 zoning regulations, which does not permit residential uses. The Proposed Actions would legalize the non-confirming residential uses on the other affected lots within the Rezoning Area, which are largely occupied by mixed commercial and residential buildings. The Applicant believes that the increased building height and bulk that would be permitted under the proposed R7D/C2-4 zoning district is appropriate for the area based on recent land use trends in the surrounding area and the underutilization of the Development Site as vacant land. In addition, the Development Site is located along Myrtle Avenue, a principal arterial with a width of 75 feet, which is featured with abundant residential and mixed-use developments as well as active ground floor commercial and pedestrian activities. The zoning districts along Myrtle Avenue within the Surrounding Area are predominantly R6B, R7A, and R7D districts mapped with C2-4 commercial overlays. Only a small portion of two blocks along Myrtle Avenue between Bedford Avenue and Walworth Street is mapped with manufacturing zoning districts of M1-1 and mixed-use zoning districts of MX-4 (M1-2/R6A). The proposed zoning boundary would directly extend the existing adjacent R7D/C2-4 zoning districts to the east of the Rezoning Area for the continuation of the surrounding residential zoning districts with commercial overlays along Myrtle Avenue.

The Applicant Proposed Development would include 18 affordable housing units through the proposed MIH text amendment under Option 2, which would advance the City's affordable housing policy outlined in Housing New York 2.0 (2017) that seeks to create or preserve 300,000 units of affordable housing by 2026.

1.8 Analysis Framework

The analysis framework compares the incremental difference between the proposed and potential development under the Proposed Actions (With-Action Condition) and the development which could occur under the existing zoning (No-Action Condition). This EAS studies the potential for individual and cumulative environmental impacts related to the Proposed Actions occurring in a study area of approximately 400 feet around the rezoning area. This environmental assessment considers the potential effects of the Proposed Actions compared to future conditions without the approvals sought by the project sponsor. The analysis framework is described below:

Reasonable Worst-Case Development Scenario

Discretionary actions sometimes permit a range of project characteristics, or development scenarios, to occur even though the action may be sought to facilitate a specific development. From the range of possible scenarios that are considered reasonable and likely, the scenario with the worst environmental consequences is chosen for analysis. This is considered to be the Reasonable Worst-Case Development Scenario (RWCDS), the use of which ensures that, regardless of which scenario occurs, its impacts would be no worse than those considered in the environmental review. The environmental assessment examines the incremental differences between the RWCDS of the future without the project in place (No-Action Condition) and the future with the project in operation (With-Action Condition).

Build Year

The analysis year for the Proposed Actions is 2027 based on an 18-month environmental and ULURP review process, followed by an approximately 18-month construction schedule for Projected Site 1 with construction complete by November 2024. Projected Site 2 is anticipated to begin construction in May of 2026 following design, financing, and lot assemblage, with construction complete within 18 months by December 2027.

The analysis which follows compares the difference between the future without the Proposed Actions (No-Actions Condition) and the future with the Proposed Actions (With-Action Condition) for the 2027 analysis year. This EAS studies the potential for individual and cumulative environmental impacts related to the Proposed Actions.

No-Action Condition

The No-Action Scenario is the same as the existing conditions in which the Projected Development Site 1 remains vacant. The non-applicant-owned sites would also remain in their existing conditions. No alternate plans for Projected Development Site 1 have been filed with the DOB, and the existing M1-1 zoning district's high parking requirement (1 space per 300 SF of uses) and low FAR (1.00) make redevelopment unlikely.

With-Action Condition

Projected Development Site 1

Under the Future With-Action Scenario, it is assumed the Projected Development Site 1 (Block 1735, Lot 39) would be developed with an 11-story (115-foot-tall) 72,349 GSF (48,211 ZSF; 5.60 FAR) mixed commercial and residential building that would include 53,128 GSF of residential floor area (44,288 ZSF; 5.14 FAR), 12,497 GSF (3,923 ZSF; 0.46 FAR) of ground floor commercial space, and 6,724 GSF of parking comprised of 16 off-street parking spaces in the cellar of the proposed building. The building would contain 65 dwelling units, 25-30% (16-20 units) of which would be affordable pursuant to MIH at an average of 60-80% AMI depending on the option selected. For the purposes of Early Childhood Programs analysis, 20% (13 units) of residential floor area is assumed to be affordable at or below 60% AMI.

Projected Development Site 2

Three non-applicant-owned lots, Block 1735, Lots 33, 34, and 35, would assemble to form a 4,800-sf corner lot. The building would be 31,196 GSF (26,880 ZSF; 5.60 FAR) and rise to a height of 115 feet at 11 stories tall. There would be 25,142 GSF of residential floor area on floors 2 through 11 with 27 dwelling units, 25-30% (7-8) of which would be permanently set aside as affordable pursuant to MIH at an average of 60-80% AMI depending on the option selected. For the purposes of Early Childhood Programs analysis, 20% (5 units) of residential floor area is assumed to be affordable at or below 60% AMI. The ground floor would contain 3,744 GSF of commercial local retail. A 2,310 GSF cellar would contain 7 enclosed residential accessory parking spaces.

Table 1.8-1: RWCDS Analysis Framework – Existing, No-Action and With-Action Calculations

Site Info				Existing/No-Action Condition				With-Action Condition					
Site ID	Block	Lot	Lot Area (gsf)	Zoning	Res. DU	Comm. (gsf)	Zoning	Res. (gsf)	DU	CF (gsf)	Com. (gsf)	Parking (gsf)	Mf (gsf)
Projected Development Site 1	1735	39	8,620	M1-1	0	0	R7D/C2-4	53,128	65	0	12,497	6,724	0
Projected Development Site 2		33	1,760		2	1,320		25,142	27	0	3,744	2,310	0
		34	1,520		2	1,140							
		35	1,520		2	1,140							
Total			13,420		6	3,600		78,270	92	0	16,241	9,034	0

DU = Dwelling Units
gsf = gross square feet
Res. = Residential
Com. = Commercial
Mf = Manufacturing
CF = Community Facility

Table 1.8-2: RWCDS – Increment of Analysis

Use	No-Action Condition	With-Action Condition	Increment
Commercial GSF	3,600	16,241	12,641
Residential GSF	7,200	78,270	71,070
Parking GSF	0	9,034	+9,034
Total GSF	10,800	103,545	92,745
Residential DUs	6	92	86
Residents[2]	15	236	220
Workers[3]	11	49	38

[2] 2.56 residents per dwelling unit per 2020 Census data for Brooklyn community district 3

[3] based on 3 employees per 1,000 SF retail

2.0 Environmental Review

2.1 Land Use, Zoning, and Public Policy

The *2021 CEQR Technical Manual* recommends procedures for analysis of land use, zoning and public policy to ascertain the impacts of a project on the Surrounding Area. Land use, zoning, and public policy are described in detail below. This section considers existing conditions, development trends, and zoning and other public policies in relation to the Projected Development Sites and the Surrounding Area as well as the larger area in which the Proposed Actions may have an effect. Because the Proposed Actions would permit the development of mixed-use building with a larger bulk and a wider range of uses compared to existing zoning regulations, a preliminary assessment of Land Use, Zoning, and Public Policy is provided.

Methodology

Existing land uses were determined by reference to the New York City Zoning and Land Use (Zola) database and PLUTOTM 20v4 shapefiles. These uses were then confirmed through site visits. The evaluation of lots within the 400-foot Study Area was performed with reference to New York City Zoning Maps and the Zoning Resolution of the City of New York and served as the basis for the zoning evaluation of the Future No Action and Future With-Action Conditions. Public Policy research was performed through an evaluation of New York City Department of City Planning (NYCDCP) and other city agencies programs and documentation.

2.1.1 Land Use

The *CEQR Technical Manual* suggests that a land use, zoning, and public policy study area should generally extend 400 feet from the site of the Proposed Actions. Existing land use patterns of city blocks within approximately 400 feet of the Rezoning Area are presented in **Figure 2** and **2.1.1-1**. The proposed zoning map amendment would affect Block 1735; Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 which is identified as the Rezoning Area.

Figure 2.1.1-1: Area to be Rezoned Overlaid with Existing Land Use Map



Existing Conditions

Land Use Study Area

As shown in **Figure 2.1.1-1** and stated in **Section 1.3**, the surrounding area is a mix of manufacturing, one- and two-family buildings, multifamily buildings, commercial buildings, public facilities, mixed-use residential and commercial buildings, vacant land, and parking facilities.

On the block of the Rezoning Area, Block 1735, there are eleven lots occupied by industrial/manufacturing uses with buildings that range in height from 1- to 2-stories and were built between 1909 and 1999; nine lots occupied by public facilities/institutions with buildings with heights ranging from 1- to 4-stories and built between 1931 and 2019; five lots with mixed commercial/residential buildings that are all built to 3-stories and all constructed in 1931; four multifamily walk-up buildings that are all built to 3-stories in height and constructed between 1899 and 2007; two commercial/office buildings that are both 1-story tall and constructed in 1931 and 1988; one 3-story single or two family building constructed in 1910; two parking facilities; and four vacant lots.

Within the Study Area to the east on Block 1736 there are four industrial/manufacturing sites with buildings ranging in height from 1- to 2-stories in height that were all built around 1931; four mixed commercial/residential buildings ranging between 2- and 4-stories that were constructed between 1901 and 1931; three 2-story multifamily walk-up buildings that were all constructed around 1899; two public facilities/institutions ranging between 1- and 2-stories constructed in 1931 and 1977; one 1-story commercial building constructed in 1931; one 1-story transportation/utility use constructed around 1931; one parking facility; and eight vacant lots.

On Block 1734 to the west, there is a transition to more residential land uses that include ten mixed commercial/residential buildings ranging between 2- and 6-stories that were constructed between 1931 and 2019; four multifamily elevator buildings ranging between 5- and 6-stories that were constructed between 1947 and 2006; two one- or two-family buildings that are 4- and 6-stories and constructed in 1931 and 2004, respectively; one 3-story industrial/manufacturing building constructed in 1951; and one 1-story transportation/utility facility that was constructed in around 1931.

Directly across Myrtle Avenue from the Rezoning Area is Block 1751 which is occupied by three 3-story mixed commercial/residential buildings all constructed around 1931; one large public facility/institutional site occupied by a 3-story building that was constructed around 1915; one 1-story commercial/office building that was constructed in 1931; one 4-story multifamily elevator building that constructed around 1930; one 1-story industrial/manufacturing facility that was constructed around 1931; one 2-story transportation/utility facility constructed around 1931; one parking facility; and one vacant site.

Southwest of the Rezoning Area is Block 1750 which is occupied by a large 6-story mixed commercial/residential building; two 2-story public facilities/institutional buildings constructed in 2003 and

2016; one 1-story commercial/office building constructed in 1931; one 3.5-story industrial/manufacturing facility; two parking facilities, and one vacant lot.

Southeast of the Rezoning Area is Block 1752, which is almost entirely occupied by industrial/manufacturing facilities except for a parking facility and three mixed commercial/office buildings constructed between 1901 and 1931 that vary in height from 2- to 3-stories.

Further away from the Rezoning Area, but within the Study Area, are portions of Blocks 1900 and 1914 to the west that are generally occupied by residential and commercial buildings. Further east of the Rezoning Area are portions of Blocks 1737 and 1753, which are predominantly occupied by industrial/manufacturing facilities and commercial uses.

Rezoning Area

As noted earlier, the Rezoning Area consists of Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 on the southern end of Block 1735 with a total area 21,550 square feet. Apart from Lot 32, all the lots within the Rezoning Area have frontage along Myrtle Avenue. The land uses of the Rezoning Area include five lots that are occupied by 3-story mixed commercial/residential buildings that were all constructed around 1931; one 2-story industrial/manufacturing facility constructed around 1931; and the Projected Development Site that is currently vacant.

Analysis

Future No-Action Conditions

Land Use Study Area

There is one site within the 400-foot study area with an active construction permit that include a new 5-story residential building at 687 Myrtle Avenue (Block 1734, Lot 41) that would consist of five dwelling units and 1,681 SF of ground-floor commercial space.

Rezoning Area

Absent the Proposed Actions the lots within the Rezoning Area are expected to remain in their existing condition.

Future With-Action Conditions

Land Use Study Area

Land use and development patterns in the land use study area are anticipated to remain unchanged in the future with the Proposed Actions. Any new development in the surrounding area would be consistent with the low-density M1-1 manufacturing zoning district that currently governs the Rezoning Area and the

surrounding medium-density M1-2, M1-2/R6A, R6B, R6B/C2-4, R7A, R7A/C2-4, and R7D/C2-4 zoning districts.

Rezoning Area

Projected Development Site 1

Under the Future With-Action Scenario, it is assumed the Projected Development Site 1 (Block 1735, Lot 39) would be developed with an 11-story (115-foot-tall) 72,349 GSF (48,211 ZSF; 5.60 FAR) mixed commercial and residential building that would include 53,128 GSF of residential floor area (44,288 ZSF; 5.14 FAR), 12,497 GSF (3,923 ZSF; 0.46 FAR) of ground floor commercial space, and 6,724 GSF of parking comprised of 16 off-street parking spaces in the cellar of the proposed building. The building would contain 65 dwelling units, 25-30% (16-20 units) of which would be affordable pursuant to MIH at an average of 60-80% AMI depending on the option selected. For the purposes of Early Childhood Programs analysis, 20% (13 units) of residential floor area is assumed to be affordable at or below 60% AMI.

Projected Development Site 2

Three non-applicant-owned lots, Block 1735, Lots 33, 34, and 35, would assemble to form a 4,800-sf corner lot. The building would be 31,196 GSF (26,880 ZSF; 5.60 FAR) and rise to a height of 115 feet at 11 stories tall. There would be 25,142 GSF of residential floor area on floors 2 through 11 with 27 dwelling units, 25-30% (7-8) of which would be permanently set aside as affordable pursuant to MIH at an average of 60-80% AMI depending on the option selected. For the purposes of Early Childhood Programs analysis, 20% (5 units) of residential floor area is assumed to be affordable at or below 60% AMI. The ground floor would contain 3,744 GSF of commercial local retail uses, and a 2,310 GSF cellar would contain 7 enclosed residential accessory parking spaces.

Conclusion

The Proposed Actions would permit the development of a new mixed-use building consisting of residential and commercial uses. The proposed development would increase the utility on the currently vacant Applicant Development Site by providing a substantial number of affordable housing units and ground floor commercial space for local retail uses consistent with those currently permitted directly to the east of the Rezoning Area on Block 1736.

Based on the analysis above, the proposed rezoning would allow for the productive redevelopment of the Rezoning Area with residential and local retail uses that are similar to the surrounding area and therefore the Proposed Actions would not generate a land use that would be incompatible with surrounding uses. There would be no significant adverse impacts on Land Use as a result of the Proposed Actions, and further analysis is not required.

2.1.2 Zoning

The *CEQR Technical Manual* suggests that a zoning study area should extend 400 feet from the Rezoning Area. Existing zoning districts within 400 feet of the Rezoning Area are presented above in **Figure 3** and below in **Figure 2.1.2-1**. The proposed zoning map amendment would affect the following lots: Block 1735, Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38 (the Rezoning Area), and 39 (the Projected Development Site), from M1-1 to R7D/C2-4.

Existing Conditions

Zoning Study Area

As detailed below, the zoning districts within 400 feet of the Rezoning Area are M1-1, M1-2, R6A, R6B, R7A, R7B, and C2-4.

Table 2.1.2-1: Summary of Existing Zoning Regulations

Zoning District	Type and Use Group (UG)	Floor Area Ratio (FAR)	Parking (Required Spaces)
M1-1	**Manufacturing** UGs 4-14, 16-17	1.0 FAR – Manufacturing 1.0 FAR – Commercial 2.4 FAR – Community Facility	1 per 300 SF
M1-2	**Manufacturing** Ugs 4-14, 16-17	2.0 FAR – Manufacturing 2.0 FAR – Commercial 4.8 FAR – Community Facility	1 per 300 SF
M1-2/ R6A	**Residential** Ugs 1-2; **Community Facility** Ugs 3-4 **Commercial** Ugs 5-14 **General Service** UG 16 **Manufacturing** UG 17	3.6 FAR – Residential (with MIH) 2.0 FAR – Manufacturing 2.0 FAR – Commercial 4.8 FAR – Community Facility	50 percent of dwelling units 25 percent of IRHUs outside of a Transit Zone *50 percent of dwelling units on lot 10,000 SF or less
R6B	**Residential** Ugs 1-2; **Community Facility** Ugs 3-4	2.20 FAR – Residential (with MIH) 2.00 FAR – Community Facility	50 percent of dwelling units 25 percent of IRHUs outside of a Transit Zone *50 percent of dwelling units on lot 10,000 SF or less
R7A	**Residential** Ugs 1-2; **Community Facility** Ugs 3-4	4.6 FAR – Residential (with MIH) 4.0 FAR – Community Facility	50 percent of dwelling units 15 percent of IRHUs outside of a Transit Zone *30 percent of dwelling units on lot 10,000 SF or less
R7D	**Residential** Ugs 1-2 **Community Facility** Ugs 3-4	5.6 FAR – Residential (with MIH) 4.2 FAR – Community Facility	50 percent of dwelling units 15 percent of IRHUs outside of a Transit Zone *30 percent of dwelling units on lot 10,000 SF or less
C2-4 Overlay	**Commercial** Ugs 5-19	2.0 FAR – Commercial (in R6-R10 districts)	1 per 1,000 SF

Figure 2.1.2-1: Zoning of the Rezoning Area



Existing zoning districts in the Surrounding Area include:

M1-1

The M1-1 district, as noted above, is a light manufacturing district that limits development to 1.00 FAR. In addition to the aforementioned FAR limit, M1-1 districts are also governed by a sky exposure plan that limits building height and setbacks. While the uses in this district are generally limited to the above-mentioned use groups, nearly all permitted industrial uses must meet stringent M1 performance standards and certain community facilities such as hospitals are permitted only by special permit. In regard to parking, the requirements in M1 district vary and are based on the type of use and size of the building. For a warehouse use in this district on off-street parking space is required for every 2,000 SF of floor area or for every three employees. Despite all restrictions in place for M1 districts it is important to note that these districts often play an important role in acting as a buffer between M2 or M3 districts and adjacent residential or commercial districts.

M1-2

The maximum floor area ratio for permitted manufacturing and commercial uses in an M1-2 district is 2.0 and a maximum floor area for community facility space of 4.8 FAR. The maximum base height before setback is 60 ft. or two-stories. Off‐street parking is required for manufacturing and commercial uses, and for most uses is calculated based on the amount of floor area. In M1-2 districts, the off‐street parking requirement may be waived if fewer than 15 spaces are required.

R6A

R6A zoning districts are medium-density contextual district that was created in 1987 for the purposed of producing Quality Housing buildings. R6A districts produce high lot coverage, six- to eight-story apartment buildings set at or near the street line. The FAR in R6A districts is 3.0 (3.6 with Inclusionary Housing designated area bonus). Above a maximum base height of 60 feet (65 feet with a qualifying ground floor or inclusionary housing bonus) the building must set back by at least 10 feet on a wide street and 15 feet on a narrow street before rising to its maximum height of 70 feet (75 feet with qualifying ground floor, 80 feet with inclusionary housing bonus, or 85 feet with both). To preserve the traditional streetscape, the street wall of a new building can be no closer to the street line than any building within 150 feet on the same block, but need not be farther than 15 feet. The area between a building's street wall and the street line must be planted. R6A buildings must have interior amenities for the residents pursuant to the Quality Housing Program. Off-street parking, which is not allowed in front of a building, is required for 50% of a building's dwelling units (25% of Inclusionary Residential Housing Units), but requirements are lower for income-restricted housing units (IRHU) and are further modified in certain areas, such as within the Transit Zone and the Manhattan Core, or for lots less than 10,000 square feet. Parking can be waived if five or fewer spaces are required.

A lot coverage of 100% is permitted for corner lots and 65% for interior or through lots.

R6B

R6B zoning districts are medium-density contextual zoning districts that were created in 1987. These districts reflect the character and scale of traditional row house neighborhoods and provide harmonious streetscapes that is generally characterized by three to four-story attached residential developments. The development within the subject R6B zoning district mapped to the east of the Project Site between Clay Street and Dupont Street, is predominantly characterized by three-and four-story attached multi-family walk-up buildings, set back from the street with stoops. The R6B zoning district permits residential uses with a maximum FAR of 2.0, a minimum street wall height of 30 feet, a maximum street wall height of 40 feet, and a maximum building height of 50 feet. R6B districts require off-street parking for 50 percent of the dwelling units in a building, with an exemption from parking for income-restricted units within the Transit Zone and a prohibition on curb cuts on zoning lots that are less than 40 feet in width. The Quality Housing program is mandatory for residential developments.

R7A

R7A is a contextual zoning district that was introduced in 1987 for the purpose of providing medium-density areas designed to produce Quality Housing buildings at a scale that was slightly larger and taller than R6A zoning districts. Often mapped along wide streets, these districts typically produce buildings with high lot coverage and are 7 to 9-stories tall. In regard to bulk regulations, the residential and community facility FAR is 4.0. Above a base height of 40 to 65 feet, a building must be set back at a depth of 10 feet on a wide street and 15 feet on a narrow street. If a building is providing a qualifying ground floor, the base height may be increased to 75 feet before being setback to the aforementioned depths. The maximum building height is 80 feet and can be increased to 85 if a qualifying ground floor is provided. In order to achieve the contextual goals of the district, the street wall of a new building can be no closer to the street line than an adjacent street wall. Street wall depths, however, need not be farther back than 10 feet. Off-street parking is generally required for 50 percent of a buildings dwelling units and 15 percent of income-restricted housing units (IRHUs) outside the Transit Zone. For lots that are 10,000 SF or less, off-street parking is required for 30 percent of dwelling units. Parking is waived for IRHUs within the Transit Zone or when the generated number of spaces would be 15 or less.

R7D

The R7D is a contextual zoning district that was introduced in 2007 for the purposed of providing medium-density district designed to produce Quality Housing buildings that are slightly larger than what is permitted in R7A zoning districts. These districts are often mapped, though not exclusively, along wide street with building heights typically ranging from between 10 and 11 stories at a scale

similar to older medium-density buildings. Compared to R7A zoning districts, the bulk restrictions under R7D regulations (with MIH) increase the maximum FAR to 5.60 from 4.60 and building heights from 115 feet from 95 feet. Under R7D zoning regulations, buildings can be no closer to the street line than any adjacent street wall though no further than 10 feet. In regard to parking requirements, off-street parking is required for 50 percent of dwelling units and is reduced for income-restricted housing units. Parking requirements are further modified in Transit Zones and the Manhattan Core.

C2-4

C2-4 districts permit a wide range of local retail and service establishments and are intended to serve a larger neighborhood footprint than a C1. C2-4 overlay districts have lower parking requirements in areas with easily accessible mass transit. Use Groups 1-9 and 14 are allowed under C2-4. R8 and R6 districts where C2-4 overlays are mapped permit commercial development at a Floor Area Ratio of 2.0. Community Facility development is permitted at a Floor Area Ratio of 4.8.

Rezoning Area

The Rezoning Area is zoned M1-1, which permits low-density manufacturing and commercial uses at a maximum FAR of 1.0 and community facility uses at 2.4 FAR.

Future No-Action Conditions

Zoning Study Area

No changes to zoning are anticipated in the future without the Proposed Actions in the Surrounding Area. Existing zoning patterns would remain.

Rezoning Area

No changes to zoning are anticipated in the future without the Proposed Actions within the Rezoning Area. The Rezoning Area would continue to be subject to M1-1 zoning.

Future With-Action Conditions

Zoning Study Area

No changes to zoning are anticipated in the future with the Proposed Actions in the Surrounding Area. Existing zoning patterns would remain.

Rezoning Area

The Proposed Actions would include rezoning the Rezoning Area to an R7D/C2-4 zoning district, which permits a maximum FAR of 5.60 for residential uses, 2.00 FAR for commercial uses, and 4.20 community facility uses.

Conclusion

The Proposed Actions would establish a high-density mixed-use district that would not only result in a substantial increase from the permitted 1.0 FAR under the existing M1-1 zoning district, but would permit a wider range of uses while providing a sizable number of affordable dwelling units in the neighborhood. Along Myrtle Avenue, the existing M1-1 zoning district is characterized by predominately residential and mixed use development. The M1-1 zoning district has remained since 1961 therefore, many of the existing uses are non-conforming.

The proposed R7D district would permit residential development up to 5.60 FAR with Inclusionary housing, and mapping a C2-4 district would permit the continuation of ground floor locally serving retail along Myrtle Avenue, which is a wide street at 75 feet and appropriate for such development and uses. The proposed R7D/C2-4 zoning district would allow for residential development compatible with the existing land use patterns and zoning in the area. The proposed R7D/C2-4 commercial district would be mapped to a depth of 100 feet from Myrtle Avenue. Existing development along Myrtle Avenue, including a number of buildings recently developed under the R7D/C2-4 district to the east, is characterized by multi-family apartment buildings with ground floor commercial space for local retail.

The City has confirmed the appropriateness of R7D zoning near wide, busy streets and transit in the 2012 Bedford – Stuyvesant North Rezoning (C 120294 ZMK) mapped immediately to the east along Myrtle Avenue. The proposed zoning map amendment is consistent with the City's policy goals outlined in the 2012 Bedford – Stuyvesant North Rezoning by providing opportunities for housing development, including affordable housing, and strengthening Myrtle Avenue as a retail and service corridor. The proposed rezoning responds to the increased demand for new housing by permitting mixed development on Myrtle Avenue pursuant to the same bulk regulations approved in the Bedford – Stuyvesant North Rezoning and the 723 Myrtle Avenue Rezoning adjacent to the Rezoning Area. The proposed extension of the R7D/C2-4 zoning district from Nostrand Avenue directly to the east of the Rezoning Area creates consistency with the existing zoning along Myrtle Avenue.

Development effectuated by the Proposed Actions would consist of ground floor commercial retail space and residential use, which would be consistent with the range of permitted uses east of the Rezoning Area. The Proposed Actions would activate and enliven Myrtle Avenue and benefit businesses and the community by creating a more engaging experience for pedestrians. The proposed R7D/C2-4 zoning district would bring the existing nonconforming residential uses on Block 1735 into conformance with the use provisions of the Zoning Resolution. The Applicant believes that the increased bulk that would be permitted under the proposed R7D/C2-4 zoning district is appropriate for the area based on recent land use trends in the surrounding area and the underutilization of the Development Site. With R7D/C2-4 mapped on the northern portion of Myrtle Avenue, directly east of the Rezoning Area, and R6B/C2-4 south of Myrtle Avenue, extending the R7D/C2-4 to the Rezoning Area would create a cohesive continuation of conforming uses on

Myrtle Ave. Accordingly, no significant adverse impacts to zoning will occur as a result of the Proposed Actions, and further analysis is not required.

2.1.3 Public Policy

The Rezoning Area is not part of, or subject to, an Urban Renewal Plan (URP), adopted community 197-a Plan, or a Solid Waste Management Plan. The Proposed Actions are also not a large publicly sponsored project, and as such, consistency with the City's PlaNYC 2050 for sustainability is not warranted. The Rezoning Area is located in a Transit Zone and a FRESH Program zone, where additional floor area is granted when a qualifying fresh food grocer is provided on the ground floor.

Transit Zone

The Rezoning Area is in a Transit Zone, which has a lower accessory parking requirement for various types of affordable housing including IRHUs, and generally apply to areas within one-half mile of a subway station where auto ownership rates are among the lowest in the city. The Proposed Project would align with the goals within the Transit Zone by encouraging development with access to public transit, thus allowing for lower parking requirements. The Proposed Actions would result in the development of 86 incremental residential units that include 23 to 28 IRHUs under MIH Option 1 or 2, depending on the option selected. As both Projected Sites are under 10,000 square feet in lot area, parking is required for 30% of market-rate units pursuant to ZR Section 25-23. Accordingly, Projected Development Site 1 would contain 16 off-street parking stalls, and Projected Development Site 2 would contain 7 off-street parking stalls.

Food Retail Expansion to Support Health (FRESH) Program

The Rezoning Area is within a FRESH Program zone that offers zoning and discretionary tax incentives to develop and retain convenient and accessible stores in underserved communities that provided fresh meat, fruit and vegetables, and other perishable goods. Such zoning incentives include additional floor area in mixed use buildings reduced parking requirements, and the construction of larger grocery stores as-of-right in light manufacturing districts. Since the Applicant is not seeking a Certification for a FRESH food store, the zoning incentives regulations under the FRESH program would not apply.

Conclusion

While the Proposed Actions would facilitate the development of high-density mixed-use buildings that would expand the permitted bulk and range of uses, the Proposed Action of mapping the Rezoning Area as an MIH area would further the City's goals to provide affordable housing and facilitate the construction of 13-20 permanently affordable dwelling units on the Applicant Development Site, depending on the MIH Option selected. The Applicant's Proposed Development takes into consideration the Development Site's location in a Transit Zone, which encourages the use of mass transit by meeting a lower parking requirement. No

other applicable public policies are within the Rezoning Area, and the Proposed Actions would not affect or impact public policy. Further analysis of public policy is not required.

2.2 Open Space

The *2021 CEQR Technical Manual* defines the need for an open space assessment if the proposed action would have a direct or indirect effect on open space resources. Direct effects would occur if the proposed action would result in the physical loss of a public open space; change of use of an open space so that it no longer serves the same user population; limit public access to an open space; or cause increased noise or air pollutant emissions, odors, or shadows on public open space that would affect its usefulness, whether temporary or permanent. Indirect effects would occur if the proposed action would result in an increase of population sufficiently large enough to noticeably diminish the ability of an area's open space to serve future population.

Open space is defined as publicly or privately owned land that is publicly accessible and operates, functions, or is available for leisure, play, or sport, or set aside for the protection and/or enhancement of the natural environment.

Pursuant to Chapter 7, Section 100 of the *2021 CEQR Technical Manual*, Open Space Resources are defined as active and/or passive, and may include, but is not limited to, the following:

- Parks operated or managed by the City, State, or Federal governments and include neighborhood and regional parks, beaches, pools, golf courses, boardwalks, playgrounds, ballfields, and recreation centers that are available to the public at no cost or through a nominal fee, as in the case of recreation centers and golf courses;
- Open space designated through regulatory approvals (such as zoning), including large-scale permits that prescribe publicly accessible open space, such as public plazas;
- Outdoor schoolyards if available to the public during non-school hours;
- Publicly-accessible institutional campuses;
- Esplanades;
- Designated greenways, as shown on the City's Bike Map, and defined as multi-use pathways for non-motorized recreation and transportation along natural and manmade linear spaces such as rail and highway rights-of-way, river corridors, and waterfront spaces;
- Landscaped medians with seating;
- Housing complex grounds, if publicly accessible;
- Nature preserves, if publicly accessible;
- Gardens, if publicly accessible;
- Church yards (with seating) or cemeteries, if publicly accessible on a constant and regular basis for passive recreation such as strolling; or
- Waterfront piers used for recreation.

Methodology

According to the guidelines of the City's *CEQR Technical Manual* for analysis of residential development, census tracts with at least half of their geographic area within a one-half mile radius of the Rezoning Area comprise the open space study area. Using current population figures, an open space ratio is calculated for both the future no-action and future with-action conditions, expressed as the amount of open space acreage per 1,000 user population. Typically, a comparison is made to the city's planning goal of 2.50 acres per 1,000 residents. Ideally, this would comprise 0.50 acres (20 percent) of passive space and 2.0 acres (80 percent) of active open space per 1,000 residents. For nonresidents who tend to use passive open space, for example, workers taking a break in a park, the optimal ratio for nonresidential populations is 0.15 acres of passive open space per 1,000 nonresidents.

Information from the NYC Department of City Planning's Community District Needs Statements, NYC Parks Department website, and U.S. Census data were utilized in preparing the open space analysis.

Direct Effects

Direct effects to open space are addressed in the sections for those specific technical areas where warranted. Construction impacts to open space are not anticipated as there would be no physical loss of public open space, no change in existing open space so that it no longer serves the same user population, would not limit public access, and would not increase noise or air pollutant emissions, odors, or shadows on public open space that would affect its usefulness. An assessment of the effects of the Proposed Actions related to shadows on open space resources is provided in **Section 2.3: Shadows**.

Indirect Effects

The threshold for assessment of the potential for indirect impacts is 200 new residents or 500 additional employees. As discussed below, the Proposed Actions would introduce 220 residents. Therefore, an assessment of indirect effects on public open space resources is warranted.

2.2.1 Preliminary Open Space Assessment

The Proposed Actions would result in a net increment of 92,745 GSF of development, including 71,070 GSF of residential floor area and 12,641 GSF of commercial floor area and 9,034 GSF of below-grade parking. The Proposed Actions are projected to result in the incremental development of 86 dwelling units within the Rezoning Area. Assuming an average occupancy of 2.56 persons based on the average household size within Brooklyn Community District 3 (2020 census), the incremental population introduced as a result of the Proposed Actions would be approximately 220 residents. Therefore, an assessment of indirect effects on public open space resources is warranted. The Proposed Actions would introduce fewer than 500 additional employees, as such, the preliminary assessment addresses the residential population introduced by the Proposed Actions.

Study Area Population

In accordance with the guidelines established in the City's *2021 CEQR Technical Manual*, the open space study area is defined to analyze both the nearby open spaces and the population using those open space resources. It is generally defined by a reasonable walking distance that users would travel to reach local open spaces and recreational areas. Pursuant to the *2021 CEQR Technical Manual*, the open space study area includes all U.S. Census Tracts that have 50 percent or more of their area within a half-mile radius of the Rezoning Area for residential users. As shown in **Figure 2.2-1**, the Census Tracts with 50% or more of their area within the 1/2-mile study area are 191, 193, 233, 235, 241, 253, 255, 257, 259.01, 259.02, 261, 531.01, 531.02, 537, and 1237.

Existing Condition

Based on the 2020 Census, the 1/2-Mile study area has a population of 70,045 residents. According to the Project-Level DCP Housing Database, 40 permits were completed within the fifteen census tracts in the 1/2-mile Study Area since January 1, 2020 (See Appendix F). An increment of 365 dwelling units were introduced into the 1/2-Mile Study Area as a result of the completed DOB permits. The 365 dwelling units multiplied by the average household size (2.56) for Brooklyn Community District 3 (2020 Census) comes out to 934 additional residents. In total, there would be 70,979 existing residents in the 1/2-Mile Study Area, as shown below in **Table 2.2-1**.

Future No-Action Condition

The No-Action Condition for the Study Area, projecting to the 2027 build year, is based on the household size and known developments within the Study Area. A review of active major construction projects, approved BSA applications, and approved ULURP actions was undertaken to determine known developments in the area. It should be noted that 270 Nostrand Avenue Rezoning (CEQR No. 21DCP043K, ULURP Nos. C210151ZMK/CN210152ZRK) received a negative declaration on August 30th, 2021, and is also considered as a No-Action project included in this analysis. As per the Environmental Assessment Statement, 270 Nostrand Avenue would facilitate a 14-story mixed-use development with 487 dwelling units, 22,285 gross square feet of local retail space, and approximately 1,128 GSF of ground floor community facility space by 2023.

A total of 53 proposed projects were identified, resulting in 1,090 proposed dwelling units. The proposed 1,090 dwelling units multiplied by the average household size (2.56) for Brooklyn CD 3 (2020 Census) comes out to 2,790 additional residents. The No-Action population for the Study Area would be the 2,790 additional residents plus the existing Study Area population of 70,979 for a total No-Action population of 73,770 residents, as shown below in **Table 2.2-1**.

With-Action Condition

Compared to No-Action Conditions, the Proposed Actions would introduce 86 more dwelling units. Assuming an average household size of 2.56 persons, there would be 220 incremental residents resulting from the

Proposed Actions. The Future With-Action population, then, would be 73,990 residents, as shown below in **Table 2.2-1**.

Table 2.2-1: Existing, No-Action, and With-Action Populations

Existing	No-Action	With-Action
70,979	73,770	73,990

Open Space Resources and Open Space Ratios

There are 16 open space resources with regular open access to the public within the study area identified in **Table 2.2-2**. There are 22.36 acres of open spaces resources in the Study Area; 16.61 are considered active and 5.75 are considered passive. The location of these resources, as well as community gardens present in the Study Area, are shown in **Figure 2.2-1**. Community gardens are not considered open space resources under many circumstances given their small size and limited public accessibility. Therefore, community gardens are not considered in the analysis.

Existing Condition

The study area has 22.36 acres of open space and an existing residential population of 70,979. The open space ratio (OSR) under existing conditions is 0.315 acres per thousand residents.

No-Action Condition

In the future without the Proposed Actions, the population for the Study Area in the 2027 build year is forecasted to be 73,770 and is projected to be served by the same 22.36 acres of open space as in the existing condition. With this population, the OSR would be 0.303.

With-Action Condition

The Proposed Actions would result in an increase in the No-Action population by 220 residents by the 2027 build year and is projected to be served by the same 22.36 acres of open space as in the existing condition. The total 2027 build year With-Action population would be 73,990. With this increase in population, the OSR would be 0.302 acres per 1,000 residents, or a 0.30 percent reduction from the No-Action OSR.

Figure 2.2-1: Open Space Study Area Census Tracts

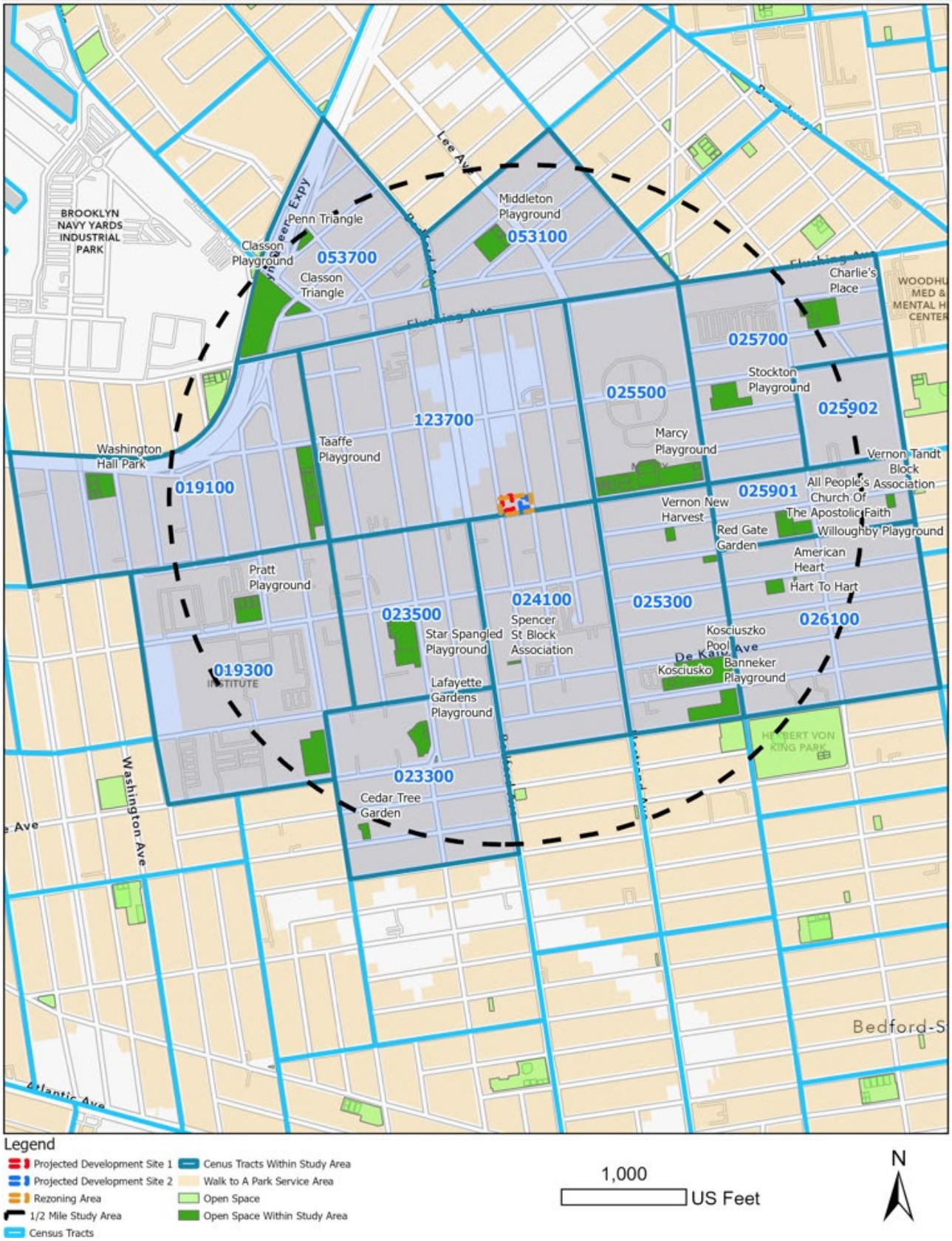


Table 2.2-2: Study Area Open Space Resources

Name	Park ID Number	Property Type	Responsible Agency	Acreage	% Active	% Passive	Total Active	Total Passive	Features
Classon Playground	B293	Jointly Operated Playground	NYC DPR/DOE	1.34	75%	25%	1.005	0.335	BC, HC, PG, SS
Classon Playground	B223NA	Playground	NYC DPR	2.98	75%	25%	2.235	0.745	BC, HC, Be
Marcy Playground	B217	Community Park	NYC DPR	3.2	75%	25%	2.4	0.8	HC, PG, SS, VC
Charlie's Place	B302	Playground	NYC DPR	1.26	75%	25%	0.945	0.315	HC, PG
Classon Triangle	B223NB	Triangle/Plaza	NYC DPR	0.21	0%	100%	0	0.21	Be
Middleton Playground	B022	Playground	NYC DPR	1.1	75%	25%	0.825	0.275	BC, HC, PG, SS
Taaffe Playground	B105	Neighborhood Park	NYC DPR	1.82	75%	25%	1.365	0.455	BC, HC, PG, SS
Willoughby Playground	B348	Jointly Operated Playground	NYC DPR/DOE	0.91	75%	25%	0.6825	0.2275	BC, HC, PG, SS
Washington Hall Park	B220	Playground	NYC DPR	0.9	75%	25%	0.675	0.225	Br, HC, PG, SS
Banneker Playground	B140	Jointly Operated Playground	NYC DPR/DOE	1.67	75%	25%	1.2525	0.4175	HC, BC, PG
Stockton Playground	B298	Jointly Operated Playground	NYC DPR/DOE	1.09	75%	25%	0.8175	0.2725	BC, HC, FE, PG, SS
Star Spangled Playground	B266	Jointly Operated Playground	NYC DPR/DOE	1.69	75%	25%	1.2675	0.4225	BC, FF, HC, PG, SS
Kosciuszko Pool	B351	Buildings/Institutions	NYC DPR	2.39	75%	25%	1.7925	0.5975	Outdoor Pool
Pratt Playground	B292	Neighborhood Park	NYC DPR	0.92	75%	25%	0.69	0.23	HC, PG, SS
Penn Triangle	B223NC	Playground	NYC DPR	0.18	75%	25%	0.135	0.045	PG, BE
Lafayette Gardens Playground	B317	Playground	NYC DPR	0.7	75%	25%	0.525	0.175	BC, HC, PG, SS
Totals				22.36	-	-	16.6125	5.7475	

SS = Spray Showers; PG = Playgrounds; Bi = Bicycling; BC = Basketball Courts; BA = BBQ Area; FE = Fitness Equipment; Be = Benches; HC = Handball Courts; GW = Greenway; CG = Community Garden; VB = Volley Ball; BF = Baseball Fields; FF = Football Fields; BR = Bathrooms

Conclusion

Pursuant to the *2021 CEQR Technical Manual*, projects expected to result in a decrease in the open space ratio should consider the following to determine if a more detailed analysis is warranted:

- Projects in study areas where the open space ratio approaches or exceeds the City's planning goal of 2.5 acres per 1,000 residents, may generally tolerate up to a five percent decrease of the open space ratio before considering the need for more detailed analysis.
- For projects in study areas where the open space ratio is not near the City's planning goal of 2.5 acres per 1,000 residents, the percentage decrease in open space ratio is weighed against how the open space ratio of the study area compares to the City's planning goal for open space. Table 7-1 of the *2021 CEQR Technical Manual* (**Table 2.2-4** below) provides general guidelines for ranges of open space ratios and acceptable percentage changes.
- Projects that have an effect on a nonresidential population's use of passive open space would not follow the guidelines presented in the below table, and should consider the need for a detailed assessment based on a comparison of the open space ratio to the optimal ratio of 0.15 acres of passive space per 1,000 nonresidents. Projects that lead to the non-residential open space ratio to drop below the optimal ratio of 0.15 acres of passive open space per 1,000 non-residents may warrant a more detailed assessment.

As shown below in **Table 2.2-3**, under the No-Action and With-Action conditions, the overall residential OSR in the area would be below 2.5 acres per thousand residents, which is the planning goal in NYC. Under Future With-Action conditions, the OSR would be 0.302 acres per 1,000 residents, or a 0.30 percent reduction from the No-Action OSR. Using **Table 2.2-4** below, the Proposed Actions would not warrant a detailed analysis of open space. Accordingly, the Proposed Actions will not result in significant adverse impacts associated with open space.

Table 2.2-3: Existing, No-Action and With-Action Open Space Ratios

	Residential Total	Residential Active	Residential Passive
Existing OSR	0.315	0.234	0.081
No Action OSR	0.303	0.225	0.078
With Action OSR	0.302	0.225	0.078
% Change	0.30%	0.30%	0.30%

Table 2.2-4: Preliminary Assessment Guidance for Percentage Change in Open Space Ratio

Open Space Ratio Range	Percentage Change in Open Space Ratio
2.01 to 2.50* or greater	5%
1.51 to 2.00	4%
1.01 to 1.50	3%
0.51 to 1.00	2%
0.50 or Less	1%
*2.5 OSR is the planning goal in NYC	

Source: Table 7-1 of the *2021 CEQR Technical Manual*

2.3 Shadows

The *2021 CEQR Technical Manual* defines a shadow as the condition that results when a building or other built structure blocks the sunlight that would otherwise directly reach a certain area, space or feature. An incremental shadow is the additional or new shadow that a building or other built structure resulting from a proposed action would cast on a sunlight-sensitive resource during the year. The sunlight-sensitive resources of concern are those resources that depend on sunlight or for which direct sunlight is necessary to maintain the resource's usability or architectural integrity, including public open space, architectural resources and natural resources. Shadows can have impacts on publicly accessible open spaces or natural features by adversely affecting their use and important landscaping and vegetation. In general, increases in shadow coverage make parks feel darker and colder, affecting the experience of park patrons. Shadows can also have impacts on historic resources whose features are sunlight-sensitive, such as stained-glass windows, by obscuring the features or details, which make the resources significant.

The duration and dimensions of shadows are determined by the geographic location of the area from which the shadow is cast and the time of day and season. Shadows cast during the morning and evening, when the sun is low in the sky, are longer, while midday shadows are shorter in length. Shadows in winter, when the sun arcs low across the southern sky, are also longer throughout the day than at corresponding times in spring and fall seasons. In summer, the high arc of the sun casts shorter shadows than at any other time of year, and early and late shadows during the summer are cast farther towards the south than shadows cast in early and late winter months.

The *CEQR Technical Manual* states that a shadow assessment considers projects that result in new shadows long enough to reach a sunlight-sensitive resource. Therefore, a shadow assessment is warranted only if the project would either result in (a) new structures (or additions to existing structures including the addition of rooftop mechanical equipment) of 50 feet or more; or, (b) be located adjacent to, or across the street from, a sunlight-sensitive resource.

The sunlight-sensitive resources of concern are those resources that depend on sunlight or for which direct sunlight is necessary to maintain the resource's usability or architectural integrity, including public open space, architectural resources and natural resources. In general, shadows on city streets and sidewalks or on other buildings are not considered significant. Some open spaces also contain facilities that are not sensitive to sunlight. These are usually paved such as handball or basketball courts, places containing no seating areas and no vegetation, no unusual or historic plantings, or containing only unusual or historic plantings that are shade tolerant. These types of facilities do not need to be analyzed for shadow impacts. Additionally, it is generally not necessary to assess resources located to the south of projected development sites, as shadows cast by the action-generated development would not be cast in the direction of these resources. Furthermore, shadows occurring within one and one-half hour of sunrise or sunset generally are not considered significant in accordance with *CEQR Technical Manual* guidance.

Methodology

This preliminary analysis of shadows follows the guidelines set forth in the *2021 CEQR Technical Manual* for a preliminary assessment (Section 310). According to the *2021 CEQR Technical Manual*, a preliminary shadow assessment includes the development of a base map showing the site location in relation to any sunlight-sensitive resources as per guidelines provided in the *2021 CEQR Technical Manual*. Following these guidelines, the longest shadow study area is determined, and a Tier 1 screening assessment is conducted to determine if any sunlight-sensitive resources fall within the study area. If no resources are identified, no further analysis would be required. If sunlight-sensitive resources lay within the longest shadow study area, the next tier of screening assessment should be conducted. This preliminary assessment includes a basic description of the proposed project that would be facilitated by the Proposed Actions in order to determine whether a more detailed assessment would be appropriate.

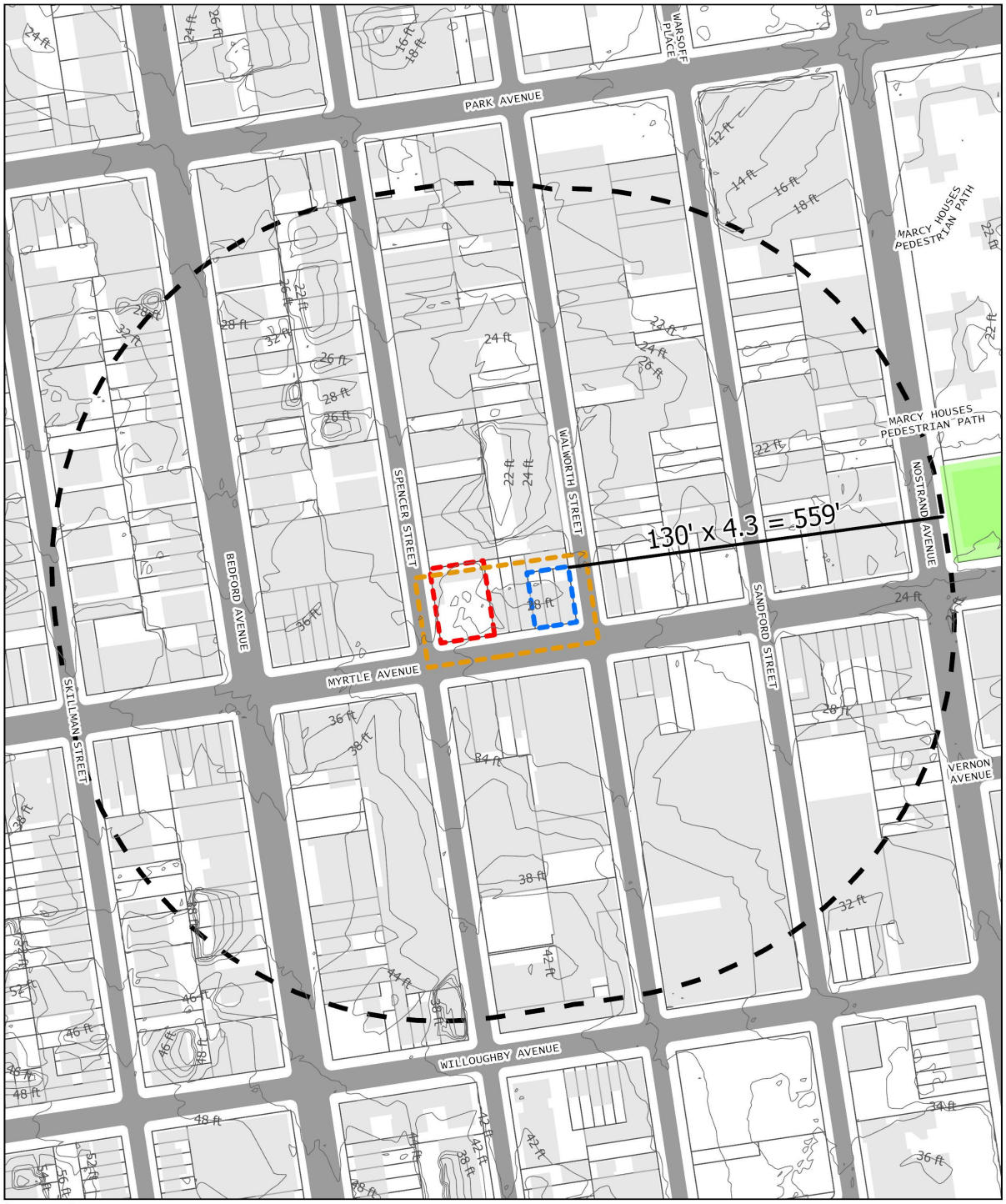
2.3.1 Tier 1 Screening Assessment

Under the Future With-Action Condition, the Projected Development Sites (Block 1735, Lot 39; and Block 1735, Lots 33, 34, and 35) could be developed with new buildings having a maximum height of 130 feet (inclusive of a 15-foot mechanical bulkhead) and the longest action-induced shadow would be approximately 559 feet (4.3 x 130 feet) in length. The first step in a shadow analysis is to determine whether there are any sunlight-sensitive resources located within the length of the 559-foot radius.

Conclusion

As **Figure 2.3-1** shows below, there are no sunlight-sensitive resources within 559 feet of the Projected Development Sites, and no further analysis is warranted.

Figure 2.3-1: Tier I Shadow Screening Assessment



2.4 Historic and Cultural Resources

An assessment of historic and cultural resources is usually necessary for projects that are located in close proximity to historic or landmark structures or districts, or for projects that require in-ground disturbance, unless such disturbance occurs in an area that has been formerly excavated, according to the *2021 CEQR Technical Manual*.

The term "historic resources" defines districts, buildings, structures, sites, and objects of historical, aesthetic, cultural, architectural, and archaeological importance. In assessing both historic and cultural resources, the findings of the appropriate city, state, and federal agencies are consulted. Historic resources include the New York City Landmarks Preservation Commission (LPC) designated landmarks, interior landmarks, scenic landmarks, and historic districts; locations being considered for landmark status by the LPC; properties/districts listed on, or formally determined eligible for, inclusion on the State and/or National Register (S/NR) of Historic Places; locations recommended by the New York State Board for Listings on the State and/or National Register of Historic Places and National Historic Landmarks.

2.4.1 Architectural Resources

Per *2021 CEQR Technical Manual* guidelines, impacts on historic resources are considered on those sites affected by the Proposed Actions and in the area surrounding identified development sites. The historic resources study area is therefore defined as the project site plus an approximately 400-foot radius around the Proposed Actions area.

To determine whether the Proposed Project has the potential to affect nearby off-site historic or architectural resources, the study area is screened for historic and architectural resources. No architectural resources were found in the project area that were considered historic or significant.

The LPC was contacted for their initial review of the project's potential to impact nearby historic and cultural resources, and by letter dated July 24, 2020, indicating that the study area does not contain any buildings of known architectural significance (see **Appendix A**). Therefore, significant adverse impacts to architectural resources are not expected because of the Proposed Actions, and further analysis is not warranted.

2.4.2 Cultural and Archaeological Resources

Unlike the architectural evaluation of a Study Area that extends beyond the footprint of a project's block and lot lines, the analysis of potential and/or projected impacts to archaeological resources is controlled by the actual footprint of the limits of soil disturbance. Archeological resources are physical remains, usually subsurface, of the prehistoric and historic periods such as burials, foundations, artifacts, wells and privies.

The *CEQR Technical Manual* requires a detailed evaluation of a project's potential effect on the archeological

resources if it would potentially result in an in-ground disturbance to an area not previously excavated.

The Proposed Actions would not result in new in-ground construction on the Projected Development Site. As noted, the LPC was contacted for their initial review of the project's potential to impact nearby historic and cultural resources, and a response was received on July 24, 2020 (see **Appendix A**), indicating that none of the sites in the study area are considered archaeologically significant.

Conclusion

The project would result in in-ground disturbance to develop the proposed mixed-use buildings with cellar space for parking. LPC was contacted for their initial review of the proposed project's potential to impact historic and cultural resources on or near the Rezoning Area. In a letter dated July 24, 2020, LPC indicated that the Study Area does not contain any sites or buildings of known architectural or archaeological significance (see **Appendix A**). Furthermore, a survey was conducted of sites or resources that have been designated as either listed or eligible for listing in the State and National Register (S/NR) of historic places and no site or resources were found within 400 feet of the Rezoning Area. Thus, the Proposed Actions will not result in significant adverse impacts on sensitive architectural or archaeological resources.

2.5 Urban Design and Visual Resources

According to the *2021 CEQR Technical Manual*, urban design is the totality of components that may affect a pedestrian's experience of public space. Elements that play an important role in the pedestrian's experience include streets, buildings, visual resources, open space, and natural features, as well as wind as it relates to channelization and downwash pressure from tall buildings. Pursuant to the *2021 CEQR Technical Manual*, an assessment of Urban Design may be warranted when a Proposed Actions may affect one or more of the elements that contribute to the pedestrian experience of an area, specifically the arrangement, appearance, and functionality of the built environment.

Methodology

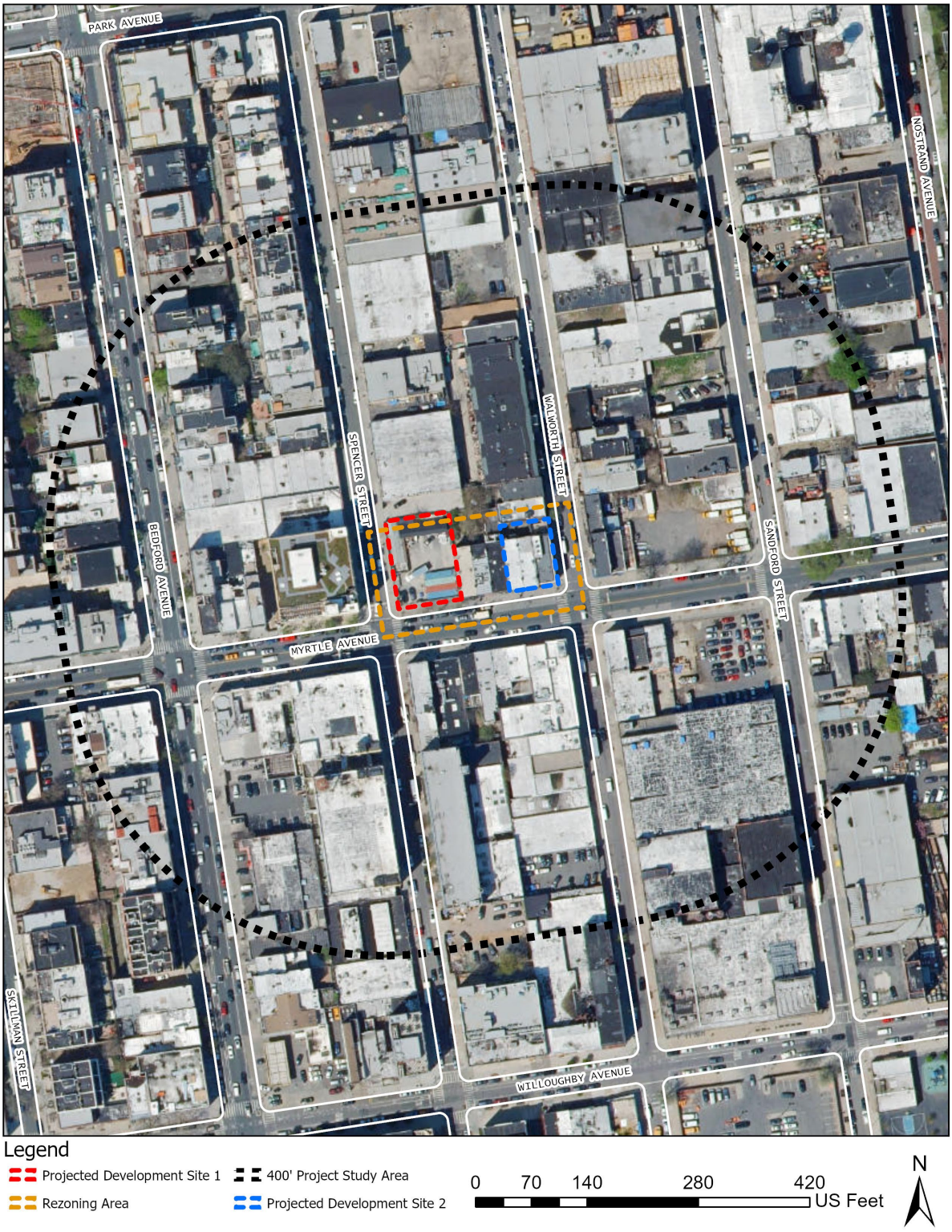
Pursuant to the CEQR Technical Manual, an assessment of urban design is appropriate when a project may affect one or more of the elements that contribute to the pedestrian experience of the public realm. This assessment of Urban Design and Visual Resources focuses on those elements of the Proposed Action that may have the potential to impact the use, arrangement, appearance, and functionality of the built environment. The *CEQR Technical Manual* states that a preliminary urban design analysis is appropriate when there is potential for a pedestrian to observe a material alteration beyond what is allowed by existing zoning. This preliminary analysis provides an assessment of the Proposed Action; to determine when comparing existing and future conditions with and without the Proposed Actions whether the project may result in a significant adverse environmental impact.

The following analysis examines each of those elements that play an important role in the pedestrian experience, including street hierarchy and streetscape (including the arrangement and orientation of streets); building scale as defined by their height and bulk in relation to adjusting built form and arrangement; as well as natural features, open space, and topography. These components are further considered in relation to changes in use and density or use, in so far as it impacts the experience of the pedestrian.

The following preliminary analysis also considers the effects of the Proposed Action on an area's visual resources, or those important public view corridors, vistas, natural or built features. Visual resources can include waterfront views, public parks, landmark structures or districts, or natural features, such as rivers or geological formations. Based on *CEQR Technical Manual* guidelines, the study area for urban design is the area where the project may influence land use patterns and the built environment. The urban design study area consists of both a primary study area (where urban design defects of the Proposed Actions are direct) and a secondary study area. For the purpose of this assessment, the primary study area is the Rezoning Area. As with the analysis of land use, zoning, and public policy, the second study area for the urban design assessment is defined as the area within approximately 400 feet of the Rezoning Area (see **Figure 2.5-1**). Due to the size of this rezoning, this assessment also considers the context, access, and relationship with the broader "neighborhood unit" in which the study area sits.

The analysis is based on field visits, aerial views, computerized massing studies and montages, photographs, geographic information systems analysis and other graphic images of the Rezoning Area and surrounding study area. Zoning calculations, including floor area calculations, building heights, and lot coverage information are also provided. A photo key is provided identifying locations of primary and secondary study area photos used to document existing conditions is provided in **Figure 2.5-2**.

Figure 2.5-1: Primary and Secondary Study Area



The proposed rezoning of the Rezoning Area from M1-1 to R7D/C2-4 would alter the permitted bulk and height within the Rezoning Area. Therefore, further analysis is warranted. The differences between existing and proposed zoning, with regards to those aspects of zoning affecting urban design, are presented in the following **Table 2.5-1**.

Table 2.5-1: No-Action and With-Action Zoning

	No-Action	With-Action	
Zoning	M1-1	R7D/C2-4	
Permitted Uses	Manu., Com., and CF	Res., Com., CF	
Maximum FAR	Mf.: 1.00 Com.: 1.00 CF: 2.4	Res.:	5.60 (with MIH)
		Com.	2.00
		CF	4.20
Maximum Height	Sky Exposure Plane starting at 30 feet	Min. Base Height: 60 feet Max Base Height: 85 feet Max Building Height: 110 feet Max Building Height (w/QGF): 115	
Lot Coverage	100%	Residential Corner Lot Coverage: 100% Residential Interior Lot Coverage: 65%	

Manu.: Manufacturing; Com.: Commercial; CF = Community Facility; Res. = Residential; QGF = Qualifying Ground Floor

Existing Conditions

Context

The Rezoning Area consists of eight separate lots on the southern end of Block 1735.

Rationalizing the Neighborhood

The 400-foot study area is characterized by a mix of low- to medium-density land uses that vary in height and bulk. This impression is the result of the presence of many pre-existing conforming industrial and commercial uses set amongst a variety of housing topologies and densities. This section evaluates the characteristics of existing land uses, height, bulk, and density within the primary and secondary study areas as well as the sidewalks and roadways linking the built form of the neighborhood, the integrated consideration of which establishes the basis for the overall urban design character experienced by the pedestrian.

Land Use and Built Form

In terms of land use, there is an eclectic of mix commercial, light industrial, public facilities and institutions, residential, transportation and utility uses, and vacant land within the 400-foot study area and which characterizes the broader neighborhood generally. The predominant land uses in the study area are residential, industrial/manufacturing uses, and public facilities/institutional uses.

The lots and buildings housing these uses vary very little in height, with buildings generally ranging between one and three stories and never exceeding six stories. Land Uses directly abutting the Rezoning Area (see photos in **Figures 2.5-4**) generally consist of a mix of residential buildings to the north and a vacant lot.

The residential uses within the study area are predominantly west of Spencer Street and southwest of the Rezoning Area. There are some legally non-confirming residential uses adjacently located to the Projected Development Site on the south portion of Block 1735 that include five 3-story mixed commercial/residential buildings on Lots 33, 34, 35, 37, and 38, two 3-story multifamily walkup buildings on Lots 31 and 36, and one 3-story one or two-family building on Lot 23. A BSA variance (Calendar Number: 9-04-BZ) was approved in 2004 under Z.R. §72-21 to permit the proposed multiple dwelling located in an M1-1 zoning district, which is contrary to Z.R. §42-00 and §43-00, for a 3-story multifamily walk-up building located at 114 Walworth Street (Block 1735, Lot 7501). On Block 1734 to the west, there are ten mixed commercial/residential buildings with frontage along Myrtle and Bedford Avenue, four multifamily elevator buildings, and four one or two-family buildings. On Block 1736 to the west, there are only four sites with residential uses, including three lots occupied by 2-story multifamily walkup buildings and one lot occupied by a 2-story one or two-family building. The residential uses south of Myrtle Avenue are largely comprised of mixed commercial/residential buildings. Half of Block 1750, directly southwest of Projected Development Site 1, is occupied by a large site (Lot 24) with a 6-story mixed commercial/residential building that is the only residential building on the block within the Secondary Study Area. Block 1751, across the street from the Rezoning Area, has four residential sites that include three 3-story buildings with frontage on Myrtle Avenue and one 4-story multifamily elevator building with frontage along Spencer Street. Block 1752, southeast of the Rezoning Area, only has three small sites with residential uses that are all located along Myrtle Avenue and are all mixed commercial/residential buildings ranging between two and three stories tall.

The industrial/manufacturing uses are predominantly east of Spencer Street. On the block of Projected Development Site 1, there are eight industrial/manufacturing uses, with seven of them occupied by 1-story buildings and one of them occupied by a 2-story building. On Block 1736 to the east, there are four sites within industrial/manufacturing uses with two that are occupied by 1-story buildings and two occupied by 2-story buildings. South of Myrtle Avenue is Block 1752, the vast majority of the block is occupied by industrial/manufacturing uses, three of the lots are occupied by 1-story buildings, and two of the lots are occupied by 4-story buildings.

Public facilities/institutional uses account for the third largest land use within the study area and include three such uses on Block 1735 ranging between 1- and 4-stories tall; one 3-story building across the street on

Block 1751 with frontage on Myrtle Avenue; two 2-story buildings on 1750 with frontage on Myrtle and Bedford Avenue; and two on Block 1736 ranging between 1- and 2-stories tall with frontage along Walworth Street.

Other notable land uses in the study area include a few commercial/office buildings and a large number of vacant lots, which appear to be concentrated on Blocks 1735 and 1736.

Access

The traffic grid around the Rezoning Area is regularly shaped. Block 1735 is surrounded by three different road types according to the New York State Department of Transportation (NYSDOT) that includes Myrtle Avenue to the south (a Principal Arterial Road), Spencer Street to the west (a Local Road), Walworth Street to the east (a Local Road), and Park Avenue to the north (a Minor Arterial Road).

Generally, the sidewalks, ranging from 10- to 15-feet-wide, are in good condition with well-paved surfaces and regular street trees within the Surrounding Area. Specifically adjacent to the Rezoning Area, the sidewalk is approximately 17 feet on the north side of Myrtle Avenue, 11 feet on the east side of Spencer Street, and 12 feet on the west side of Walworth Street. All intersections are regulated by traffic lights and are marked by pedestrian crossing markings. Pedestrian activity is low because of a large number of vacant sites and industrial/manufacturing uses within the study area.

Visual Resources

There are no visual resources identified within the study area, and development on the two Projected Development Sites would not result in any adverse effects on the streetscape.

Figure 2.5-2: Pedestrian Views Along the Myrtle Avenue and Spencer Street













Figure 2.5-3: Massing Photo Key

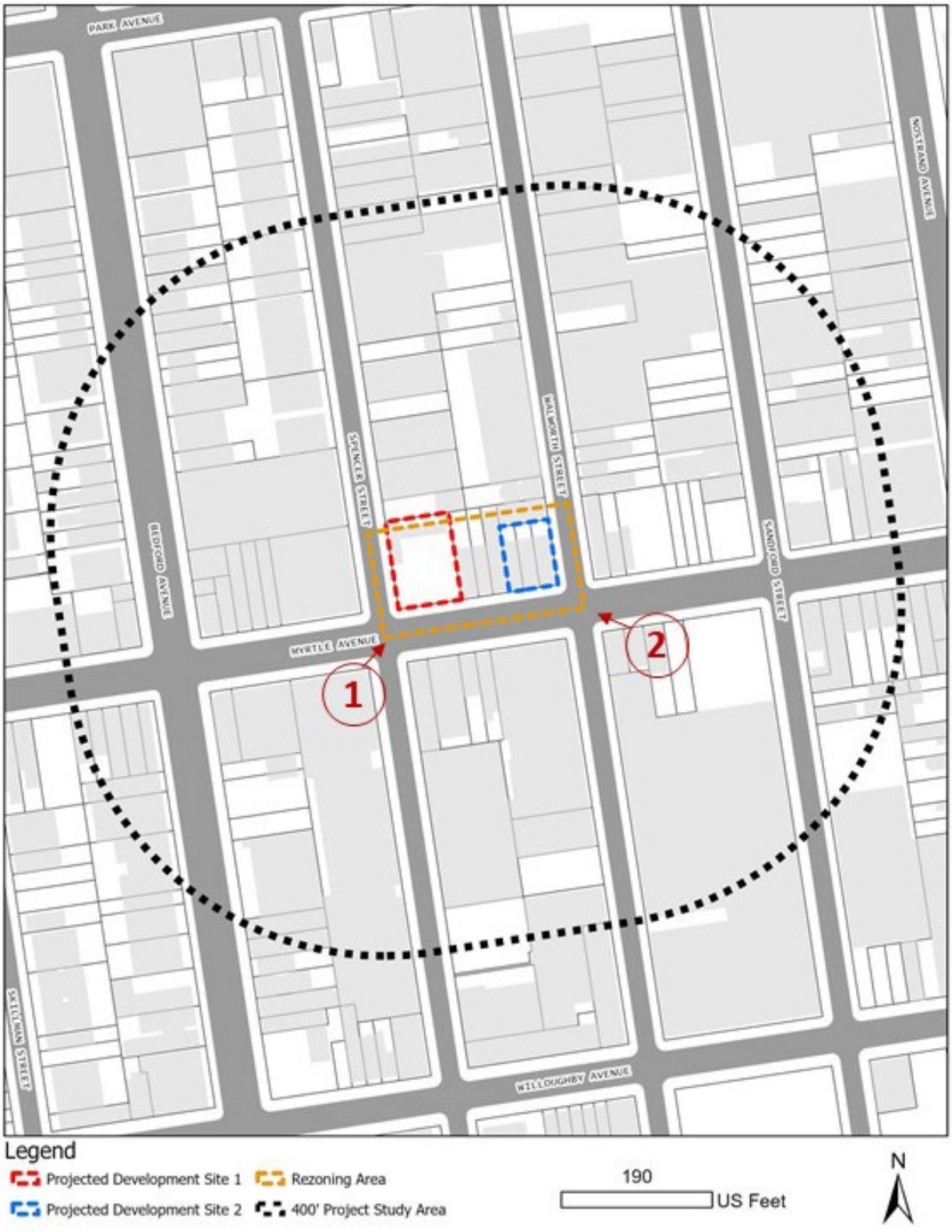


Figure 2.5-4: No-Action View of Projected Development Site 1 and Projected Development Site 2



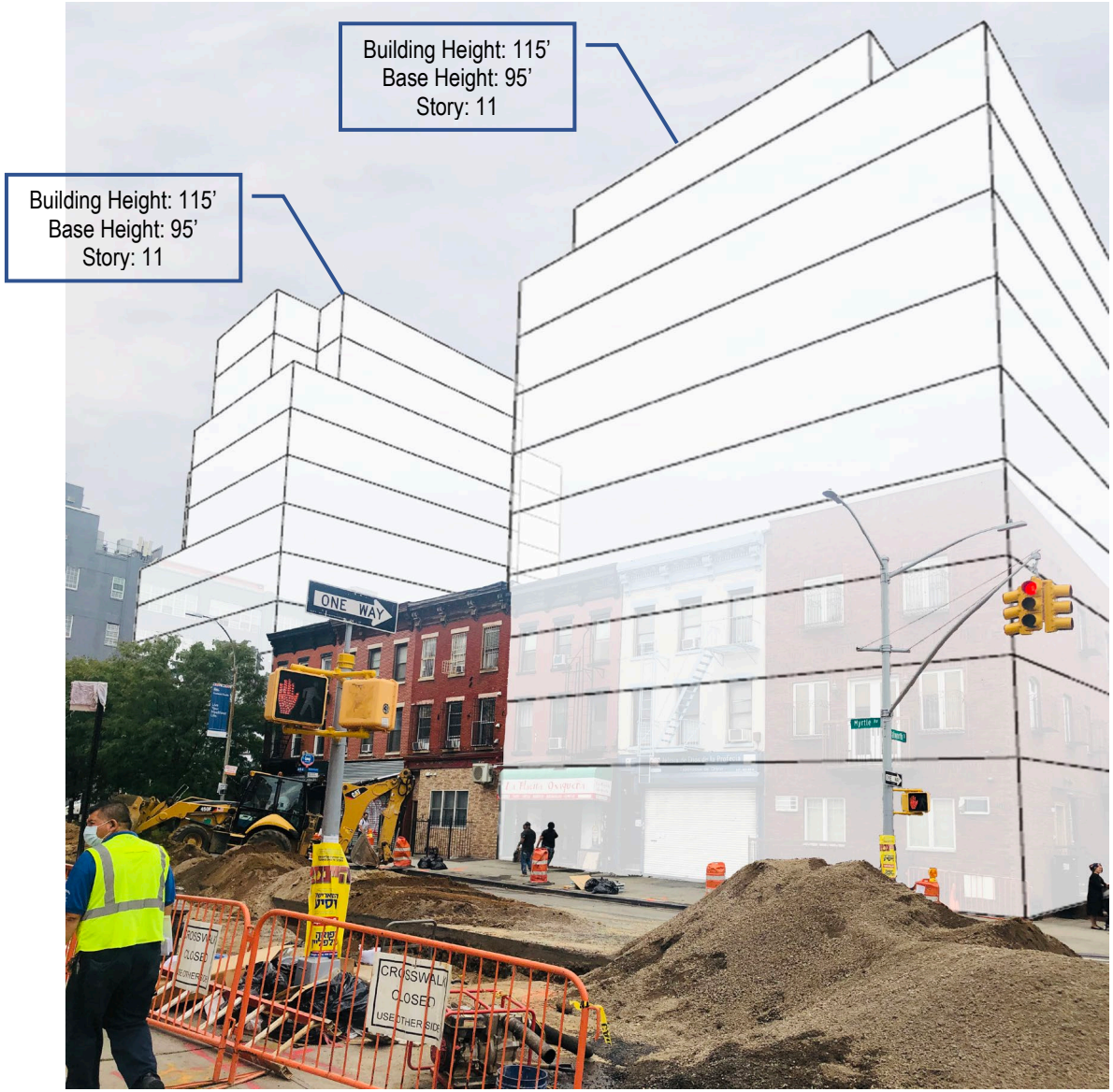
Figure 2.5-5: With-Action View of Projected Development Site 1 and Projected Development Site 2



Figure 2.5-6: No-Action View of Projected Development Site 1 and Projected Development Site 2



Figure 2.5-7: With-Action View of Projected Development Site 1 and Projected Development Site 2



Analysis

Future No-Action Condition

No changes to zoning are anticipated in the future without the Proposed Actions within the Rezoning Area. The Rezoning Area would continue to be subject to M1-1 zoning.

Future With-Action Condition

As per *CEQR Technical Manual*, the Urban Design analysis would determine how the Proposed Development may affect the area's urban design elements in the future With-Action condition compared to the future No-Action condition. The analysis would use the maximum FAR and building and base heights allowed in the proposed R7D/C2-4 zoning districts under the RWCDS to utilize the most conservative assumptions and show the greatest impact on the pedestrian experience though the Applicant may propose a more efficient floorplate with a lower building height. Therefore, the buildings on the two Projected Development Sites are assumed to be 11-story (115-foot-tall) with a base height of 95 feet, which are the maximum heights permitted under the proposed R7D/C2-4 zoning regulations.

Projected Development Site 1

The Applicant-owned Projected Development Site 1 would be rezoned from M1-1 to R7D/C2-4. The proposed Zoning Map Amendment would permit residential development on the Projected Development Site 1 to a maximum FAR of 5.6 under the proposed R7D zoning district and 2.0 under the proposed C2-4 commercial overlay. Proposed Development in the With-Action scenario with an increase in height to what is permitted within the new rezoning district. The building would be an 11-story (115-foot-tall) 72,349 GSF (48,211 ZSF; 5.60 FAR) mixed commercial and residential building that would include 53,128 GSF of residential floor area (44,288 ZSF; 5.14 FAR), 12,497 GSF (3,923 ZSF; 0.46 FAR) of ground floor commercial space, and 6,724 GSF of parking comprised of 16 off-street parking spaces in the cellar of the proposed building.

Projected Development Site 2

Three non-applicant-owned lots, Block 1735, Lots 33, 34, and 35, would assemble to form a 4,800-sf corner lot. The building would be 31,196 GSF (26,880 ZSF; 5.60 FAR) and rise to a height of 115 feet at 11 stories tall. There would be 25,142 GSF of residential floor area on floors 2 through 11. The ground floor would contain 3,744 GSF of commercial local retail uses, and a 2,310 GSF cellar would contain 7 enclosed residential accessory parking spaces.

Conclusion

The proposed R7D district would permit residential development up to 5.60 FAR with Inclusionary housing, and mapping a C2-4 district would permit the continuation of ground floor locally serving retail along Myrtle Avenue, which is a wide street at 75 feet and appropriate for such development and uses. The proposed R7D/C2-4 zoning district would allow for residential development compatible with the existing land use

patterns and zoning in the area. The proposed R7D/C2-4 commercial district would be mapped to a depth of 100 feet from Myrtle Avenue. The proposed extension of the R7D/C2-4 zoning district from Nostrand Avenue directly to the east of the Rezoning Area creates consistency with the existing zoning along Myrtle Avenue. Existing development along Myrtle Avenue, including a number of buildings recently developed under the R7D/C2-4 district to the east, is characterized by multi-family apartment buildings with ground floor commercial space for local retail.

Development effectuated by the Proposed Actions would consist of ground floor commercial retail space and residential use, which would be consistent with the range of permitted uses east of the Rezoning Area. The Proposed Actions would activate and enliven Myrtle Avenue and benefit businesses and the community by creating a more engaging experience for pedestrians. With R7D/C2-4 mapped on the northern portion of Myrtle Avenue, directly east of the Rezoning Area, and R6B/C2-4 south of Myrtle Avenue, extending the R7D/C2-4 to the Rezoning Area would create a cohesive continuation of conforming uses on Myrtle Ave. The Proposed Actions would not result in a change to the built environment's arrangement, appearance, or functionality such that they would result in a negative impact to a pedestrian's experience of the area. Accordingly, the Projected Developments would not adversely impact any of the constituent urban design elements or impact the overall character of the neighborhood. Therefore, the Proposed Actions would not result in any significant adverse impact on the constituent elements of Urban Design, and a detailed analysis is not warranted.

There are no significant visual resources within the vicinity of the Rezoning Area. The Proposed Actions would not block any public view of a resource of significant aesthetic value. Therefore, the Proposed Actions would not result in significant adverse impacts related to urban design and visual resources.

2.6 Hazardous Materials

According to the *2021 CEQR Technical Manual*, the potential for significant impacts from hazardous materials can occur when: (a) hazardous material exists on a site, and (b) an action would increase pathways to their exposure, or (c) an action would introduce new activities or processes using hazardous materials.

Methodology

The hazardous materials assessment begins with a Phase 1 ESA, which is a qualitative evaluation of the environmental conditions present at a site, based on a review of available information, site observations, and interviews. Pursuant to the *2021 CEQR Technical Manual*, the Phase 1 ESA is conducted in accordance with the standards established by the current ASTM Phase 1 ESA Standard and includes research and field observations to determine whether the site may contain contamination from either past or present activities on the site or as a result of activities on adjacent or nearby properties. If a potential REC is identified during this assessment, then building any subsurface investigations are usually conducted as part of a Phase II ESA to confirm the presence and extent of the contamination.

Analysis

The proposed rezoning from an M1-1 zoning district to an R7D/C2-4 zoning district is being sought to facilitate the development of the Applicant-Owned Projected Development Site 1 (Block 1735, Lot 39) with a new 8-story, 95'-6" mixed-use building with a total floor area of 66,884 gross square feet (GSF) (48,224 zoning square feet – "ZSF"; 5.60 FAR) mixed-use residential building with ground floor commercial space. The site is currently vacant and unimproved, and is used as car storage for a stone business. Accordingly, a Phase I ESA was conducted for the Applicant-Owned Development Site (Projected Development Site 1) by Equity Environmental Engineering (EEE) in July of 2020.

The purpose of a Phase I ESA is to determine whether any type of environmental hazard exists within or adjacent to the project site. Environmental hazards may include, but are not limited to, hazardous/toxic wastes or raw chemicals stored, dumped, or spilled on the site, underground and above ground storage of petroleum or hazardous materials; asbestos within the building materials/structures; and identification of potential off-site sources of hazardous waste contamination, such as industrial facilities adjacent to the subject property.

Recognized Environmental Conditions (RECs) are defined as the presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, past release, or a material threat of a release into structures on the property or into the ground, ground water or surface waters of the property. De minimis RECs are those that do not present a threat to health or the environment and would not be the subject of an enforcement action by a government agency. All RECs, excluding de minimis RECs, were considered in the Phase I.

EEE has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13. The following conditions were observed:

- The Subject Property - It is comprised of 33,415 SF of land with ground cover that consists primarily of a concrete sidewalk, a large vegetated area, and four storage trailers. Historical sources indicate that the Subject Property became undeveloped sometime between 1966 and 1974.
- RECs – Equity found no RECs associated with the Development Site.
- HRECs - Equity found no HRECs associated with the Development Site.
- CRECs - Equity found no CRECs associated with this Development Site.
- VECs – Equity's review of the EDR Vapor Encroachment database did identify multiple VECs (Vapor Encroachment Conditions) of concern within 1/10 of a mile of the Subject Property related to a historic dry cleaner and historic auto garages. Those VECs of concern include four total historic auto garages ranging from 120 to 497 feet from the Projected Development Site and one historic dry cleaner 450 feet away from the Projected Development Site. Records from EDR, Inc. also indicated that a pest control business existed on the Development Site from 2014 to 2017. Thus, a vapor encroachment condition cannot be ruled out for the Development Site.

Conclusion

Based on the findings of the Phase I ESA, VECs were identified in relation to the Projected Development Site. Therefore, development of the Projected Development Site under the Proposed Actions may have the potential for adverse impact related to hazardous materials and a Phase 2 ESA should be undertaken, collecting original samples of soil, ground water or building materials to analyze for quantitative values of various contaminants. Because the Project Site is currently an active business, the work required to complete the Phase 2 ESA would interfere with site operations, and the Applicant has elected to place an E-Designation on the Project Site.

As a result, an E-Designation is proposed to be mapped on the Projected Development Sites (Block 1735, Lot 39; and Block 1735, Lots 33, 34, 35). The proposed E-Designation language related to Hazardous Materials is as follows:

E-Designation (E-695)

Projected Development Site 1: Block 1735, Lot 39 (Site under the control or ownership of the applicant)

Projected Development Site 2: Block 1735, Lots 33, 34, 35 (Site not under the control or ownership of the applicant)

An E-Designation should be placed on the Projected Development Sites to assure that testing and mitigation will be performed, as necessary, before any future development and/or soil disturbance. Further hazardous

materials assessments should be coordinated through the Mayor's Office of Environmental Remediation (OER).

Task 1-Sampling Protocol

The Applicant submits to OER, for review and approval, a Phase I of the site along with a soil, groundwater and soil vapor testing protocol, including a description of methods and a site map with all sampling locations clearly and precisely represented. If site sampling is necessary, no sampling should begin until written approval of a protocol is received from OER. The number and location of samples should be selected to adequately characterize the site, specific sources of suspected contamination (i.e., petroleum-based contamination and non-petroleum-based contamination), and the remainder of the site's condition. The characterization should be complete enough to determine what remediation strategy (if any) is necessary after review of sampling data. Guidelines and criteria for selecting sampling locations and collecting samples are provided by OER upon request.

Task 2-Remediation Determination and Protocol

A written report with findings and a summary of the data must be submitted to OER after completion of the testing phase and laboratory analysis for review and approval. After receiving such results, a determination is made by OER if the results indicate that remediation is necessary. If OER determines that no remediation is necessary, written notice shall be given by OER.

If remediation is indicated from test results, a proposed remediation plan must be submitted to OER for review and approval. The applicant must complete such remediation as determined necessary by OER. The Applicant should then provide proper documentation that the work has been satisfactorily completed.

A construction-related health and safety plan should be submitted to OER and would be implemented during excavation and construction activities to protect workers and the community from potentially significant adverse impacts associated with contaminated soil, groundwater and/or soil vapor. This plan would be submitted to OER prior to implementation.

With this (E) designation in place, no significant adverse impacts related to hazardous materials are expected, and no further analysis is warranted.

2.7 Transportation

Pursuant to *2021 CEQR Technical Manual* methodology, a transportation assessment may be necessary when a Proposed Actions would alter the transportation network by closing, opening, or realigning an element of the transportation system such as a roadway, pedestrian way, or transit route, or if it would generate new trips on the transportation network. The objective of the transportation analyses is to determine whether a proposed project may have a potential significant impact on traffic operations and mobility, public transportation facilities and services, pedestrian elements and flow, safety of all roadway users (pedestrians, bicyclists and vehicles), on- and off-street parking, or goods movement.

Introduction and Analysis

The Rezoning Area consists of Block 1735, p/o Lot 32, 33, 34, 35, p/o 36, p/o 37, p/o 38, and p/o 39 with a total area of 20,480 SF. Projected Development Site 1 consists of Block 1735, Lot 39, which is owned by the Applicant and is currently vacant. The area of the Projected Development Site is approximately 8,620 SF with approximately 80 feet of frontage along Myrtle Avenue and 108 feet of frontage along Spencer Street. Projected Development Site 2 consists of Block 1735, Lots 33, 34, and 35 and is approximately 4,800 SF with approximately 60 feet of frontage along Myrtle Avenue and 80 feet of frontage along Walworth Street. The Rezoning Area is located in an M1-1 light manufacturing zoning district. The existing land uses in the area immediately surrounding the Rezoning Area include a mix of multifamily residential buildings, commercial, and industrial/manufacturing uses. The majority of sites on the block of the Projected Development Site and the surrounding area are occupied by industrial/manufacturing uses and public facilities/institutions. However, the blocks west of Spencer Street are generally occupied by residential buildings.

The area is well served by transit with several bus stops within one block of the Proposed Project Area. The closest bus stop is for the B54 bus on the south side of the intersection of Myrtle Avenue and Spencer Street. The B54 bus operates between Sheepshead Bay and Williamsburg via Nostrand Avenue. The area is also served by the B44 bus, which operates between Downtown Brooklyn and Ridgewood via Myrtle Avenue. The closes B44 bus stop is located on the south side of the intersection of Park Avenue and Bedford Avenue, which is approximately 720 feet northwest of the Projected Development Sites. The closest subway station is served by the G-train that is located three blocks away (approximately 1,578 feet) from the Projected Development Sites at the intersection of Myrtle Avenue and Marcy Avenue. The G-train operates between the intersection of Church Avenue and McDonald Street in Brooklyn and the Court Square subway station near the intersection of 21st Street and 44th Drive in Long Island City, Queens.

Figure 2.7-1 illustrates the site location of the proposed development and **Table 2.7-1** provides a summary of the proposed development program and a summary of the incremental change between the existing condition and the proposed development program. It is this incremental change that is evaluated in this TDF memo. The proposed build year is 2027.

Figure 2.7-1: Rezoning Area



Table 2.7-1: Summary Table for Existing, No-Action, and With-Action Scenarios

Site Info				Existing/No-Action Condition			With-Action Condition			
Site ID	Block	Lot	Lot Area (gsf)	Zoning	Res. DU	Comm. (gsf)	Zoning	Res. (gsf)	DU	Com. (gsf)
Projected Development Site 1	1735	39	8,620	M1-1	0	0	R7D/C2-4	53,128	65	12,497
Projected Development Site 2		33	1,760		2	1,320		25,142	27	3,744
		34	1,520		2	1,140				
		35	1,520		2	1,140				
Total			13,420		6	3,600		78,270	92	16,241

2.7.1 Level 1 Trip Generation Screening Assessment

The *CEQR Technical Manual* states that a preliminary trip generation assessment should be prepared to determine whether a quantified analysis of any technical areas of the transportation system is necessary. Except in unusual circumstances, further quantified analysis would typically not be needed for a technical area if the proposed development would result in fewer than the following increments:

- 50 peak hour vehicle trips;
- 200 peak hour subway/rail or bus transit riders (or 50 bus trips in a single direction on a single route during a peak hour);
- 50 CWFS Ferry Trips; or
- 200 peak hour pedestrian trips.

The *CEQR Technical Manual* also states that if the threshold for traffic is surpassed, a parking assessment may also be warranted.

Transportation Planning Assumptions

Trip generation factors for the proposed projects were developed based on information from the *2021 CEQR Technical Manual*, American Community Survey (ACS) 2015-2019 5-Year data (Kings County Tracts 235, 241, 253, 255, and 1237), and the 270 Nostrand Avenue Rezoning EAS, 2021. All the data is summarized in **Table 2.7-2. Table 2.7-3** shows the Total Trip Generation projected for the proposed rezoning.

Local Retail
The daily person trip generation rates, modal splits, temporal distributions, truck trip generation, in/out splits, truck temporal distribution, and truck in/out splits are based on the *2021 CEQR Technical Manual.* Vehicle and Taxi occupancy are based on NYCDOT survey data.

Residential (Market-rate and Affordable Units)
The daily person trip generation rates, temporal distributions, in/out splits, truck trip generation, truck temporal distribution, and truck in/out splits are based on the *2021 CEQR Technical Manual*. Modal splits and auto occupancy rates are taken from Journey to Work Tables from the American Community Survey (ACS) 2015-2019 5-Year data Kings County Census Tracts 191, 235, 241, 253, 255, and 1237, and taxi occupancy rates are taken from the 270 Nostrand Avenue Rezoning EAS, 2021.

For the purposes of trip generation and screening, rates were determined for four peak hours as necessary:

- Weekday AM Peak Hour: This includes trip generation for all land use types;
- Weekday Midday Peak Hour: This includes trip generation for all land use types;
- Weekday PM Peak Hour: This includes trip generation for all land use types;

- Saturday Midday Peak Hour: This includes trip generation for all land use types.

Table 2.7-2: Transportation Demand Factors

	Local Retail		Residential	
Trip Generation	(1)		(1)	
Weekday	329		8.18	
Saturday	358		9.08	
	per 1,000 sf		per DU	
Temporal Distribution	(1)		(1)	
Weekday AM	4.80%		9.30%	
Weekday MD	8.00%		5.60%	
Weekday PM	10.90%		8.50%	
Sat MD	11.70%		8.40%	
Modal Splits	(1)		(3)	
Auto	11.00%		16.31%	
Taxi	0.00%		0.54%	
Bus	2.00%		6.22%	
Subway	3.00%		52.63%	
Ferry	0.00%		0.00%	
Walk/Other	84.00%		24.30%	
In/Out Splits	In (1)	Out (1)	In (1)	Out (1)
Weekday AM	52%	48%	22%	78%
Weekday MD	50%	50%	50%	50%
Weekday PM	50%	50%	62%	38%
Sat MD	50%	50%	55%	45%
Vehicle Occupancy	(4)		(3)(2)	
Auto	1.20		1.10	
Taxi	1.20		1.30	
Truck Trip Generation	(1)		(1)	
Weekday	0.35		0.06	
Saturday	0.04		0.02	
Temporal Distribution	(1)		(1)	
Weekday AM	8.00%		12.00%	
Weekday MD	11.00%		9.00%	
Weekday PM	2.00%		2.00%	
Sat MD	11.00%		9.00%	
In/Out Splits	In (1)	Out (1)	In (1)	Out (1)
AM/MD/PM/Sat	50.00%	50.00%	50.00%	50.00%

(1) 2021 CEQR Technical Manual
(2) 270 Nostrand Avenue Rezoning EAS, 2021
(3) 5-year ACS Journey to Work (2015 - 2019) for Kings County Tracts 191, 235, 241, 253, 255, and 1237
(4) Based on NYC DOT Survey Data

Table 2.7-3: Total Project Generated Trips

	Local Retail		Residential		Total	
Size (gsf)	12,641	gsf	86	DU		
Peak Hour Trips						
Weekday AM	200		65		265	
Weekday MD	333		39		372	
Weekday PM	453		60		513	
Sat MD	529		66		595	
Person Trips						
Weekday AM	In	Out	In	Out	In	Out
Auto	11	11	2	8	14	19
Taxi	0	0	0	0	0	0
Bus	2	2	1	3	3	5
Subway	3	3	8	27	11	30
Ferry	0	0	0	0	0	0
Walk/Other	87	80	3	12	91	93
Total	104	96	14	51	118	147
Weekday MD	In	Out	In	Out	In	Out
Auto	18	18	3	3	22	22
Taxi	0	0	0	0	0	0
Bus	3	3	1	1	5	5
Subway	5	5	10	10	15	15
Ferry	0	0	0	0	0	0
Walk/Other	140	140	5	5	145	145
Total	166	166	20	20	186	186
Weekday PM	In	Out	In	Out	In	Out
Auto	25	25	6	4	31	29
Taxi	0	0	0	0	0	0
Bus	5	5	2	1	7	6
Subway	7	7	20	12	26	19
Ferry	0	0	0	0	0	0
Walk/Other	190	190	9	6	199	196
Total	227	227	37	23	264	249
Saturday MD	In	Out	In	Out	In	Out
Auto	29	29	6	5	35	34
Taxi	0	0	0	0	0	0
Bus	5	5	2	2	8	7
Subway	8	8	19	16	27	23
Ferry	0	0	0	0	0	0
Walk/Other	222	222	9	7	231	230
Total	265	265	36	30	301	294
Vehicle Trips						
Weekday AM	In	Out	In	Out	In	Out
Auto	10	9	2	8	12	16
Taxi	0	0	0	0	0	0
Taxi Balanced	0	0	0	0	0	0
Truck	0	0	0	0	0	0
Total	10	9	3	8	12	17
Weekday MD	In	Out	In	Out	In	Out
Auto	15	15	3	3	18	18
Taxi	0	0	0	0	0	0
Taxi Balanced	0	0	0	0	0	0
Truck	0	0	0	0	0	0
Total	15	15	3	3	19	19
Weekday PM	In	Out	In	Out	In	Out
Auto	21	21	5	3	26	24
Taxi	0	0	0	0	0	0
Taxi Balanced	0	0	0	0	0	0
Truck	0	0	0	0	0	0
Total	21	21	6	4	27	24
Saturday MD	In	Out	In	Out	In	Out
Auto	24	24	5	4	30	29
Taxi	0	0	0	0	0	0
Taxi Balanced	0	0	0	0	0	0
Truck	0	0	0	0	0	0
Total	24	24	6	5	30	29

Trip Generation Summary

The Level 1 Screening evaluates the number of vehicle and person trip-ends by mode to determine if further analysis is warranted. Incremental project-generated trip ends are detailed below in **Table 2.7-4**.

Traffic

As detailed in **Table 2.7-4**, the proposed project would generate greater than 50 vehicle trips during the Weekday PM, and Saturday Midday peak hours. As this exceeds the Level 1 threshold of 50 vehicle trip-ends, further analysis is warranted.

Subway

As detailed in **Table 2.7-4**, the proposed project would not generate greater than 200 subway pedestrian trips during the Weekday AM, Midday, PM, and Saturday Midday peak hours. As this does not exceed the Level 1 threshold of 200 subway pedestrian trip-ends no further analysis is warranted.

Bus

As detailed in **Table 2.7-4**, the proposed project would not generate greater than 200 bus pedestrian trips during the Weekday AM, Midday, PM, and Saturday Midday peak hours. As this does not exceed the Level 1 threshold of 200 bus pedestrian trip-ends no further analysis is warranted.

Pedestrian

In addition to walk-only trips, all subway, bus, railroad, and ferry trips generated by the proposed project would begin or end as pedestrian trips. All vehicles were assumed to park on-site for both Sites 1 and 2 and all taxi pick-up/drop-offs were assumed to occur at the entrance to the building. As such, no walk trips related to vehicular trips were assigned to the pedestrian network. The proposed project would exceed the Level 1 threshold of 200 trips during the Weekday AM, Weekday Midday, Weekday PM, and Saturday Midday peak hours, as shown in **Table 2.7-4**. Therefore, a Level 2 screening assessment would be warranted for these peak hours.

Table 2.7-4: Project-Generated Trip-Ends

Peak Hour	Weekday AM Peak Hour	Weekday Midday Peak Hour	Weekday PM Peak Hour	Saturday MD Peak Hour
Total Walk Only Trip-Ends	**184**	**289**	**395**	**461**
Walk Only Threshold	200	200	200	200
Total Subway Trip-Ends	**40**	**31**	**45**	**50**
Subway Threshold	200	200	200	200
Total MTA Bus Trip-Ends	**8**	**9**	**13**	**15**
MTA Bus Threshold	200	200	200	200
Total Ferry Trip-Ends	**0**	**0**	**0**	**0**
Ferry Threshold	50	50	50	50
Total Pedestrian Trip-Ends	**232**	**329**	**453**	**526**
Pedestrian Threshold	200	200	200	200
Total Vehicular Trip-Ends	**30**	**38**	**51**	**59**
Vehicular Threshold	50	50	50	50

Highlighted cells denote trip exceedances of 200 pedestrians or 50 vehicles per peak hour

2.7.2 Level 2 Trip Generation Screening Assessment

As part of the Level 2 screening assessment, project-generated trips were assigned to specific intersections and pedestrian elements near Projected Development Sites 1 and 2. Further quantified analyses to assess the potential impacts of the proposed project on the transportation system would be warranted if the trip assignments were to identify key pedestrian elements incurring 200 or more peak-hour pedestrian trips, or 50 or more vehicular trips to an intersection.

Site Access and Egress

Projected Development Sites 1 & 2 both have commercial access on Myrtle Avenue and residential access on the cross street of Spencer Street and Walworth Street for Sites 1 & 2, respectively.

Vehicular

As shown previously in **Table 2.7-4**, incremental vehicular trips resulting from the proposed project would exceed the CEQR Level-1 screening threshold during the Weekday PM and Saturday MD peak hours. Level 2 vehicular trip assignments were developed for the proposed project, and are shown in **Figure 2.7-2** and **Figure 2.7-3**.

Pedestrians

As shown previously in **Table 2.7-4**, incremental pedestrian trips resulting from the proposed project would exceed the CEQR Level-1 screening threshold during the Weekday AM, Weekday Midday, Weekday PM and Saturday Midday peak hours. Level 2 pedestrian trip assignments were individually developed for all the proposed uses and are summarized in **Table 2.7-5** to **Table 2.7-7** and **Figure 2.7-4** to **Figure 2.7-7**, and discussed below.

Auto, Taxi, and Truck Trips

For all uses, motorists would park at the on-site parking lots. Therefore, the passengers of these vehicles would not traverse the pedestrian street network.

MTA Bus Trips

The location of bus stops, the bus lines that serve each stop, the route each line covers, and the connections these lines allow for, were considered and applied to bus riders traveling to and from Projected Development Sites 1 & 2. The B44 was considered the primary North/South bus line and the B54 was considered the primary East/West bus line. Both lines have stops within three blocks of the Rezoning Area, including the B54, which has a station on Myrtle Avenue between Spencer Street and Walworth Street.

Subway Trips

The closest subway station is four blocks away (approximately 1,600 feet) from the Rezoning Area at the intersection of Myrtle Avenue and Marcy Avenue, which is served by the G train. In order to perform a conservative analysis, all subway pedestrian trips were assigned to this station.

Walk-Only Trips

Pedestrian walk-only trips were developed by distributing project-generated trips throughout the network based on the relative population weight of all census tracts within a ¼ mile radius using the 2015 – 2019 ACS 5-Year Table B1003. The specific entrance/exit pedestrians used based on their trip purpose and the specifics of the street network surrounding the site were considered, as well as the land use characteristics of the surrounding neighborhood.

Figure 2.7-2: Weekday PM Vehicular Trip Assignment (1 of 2)

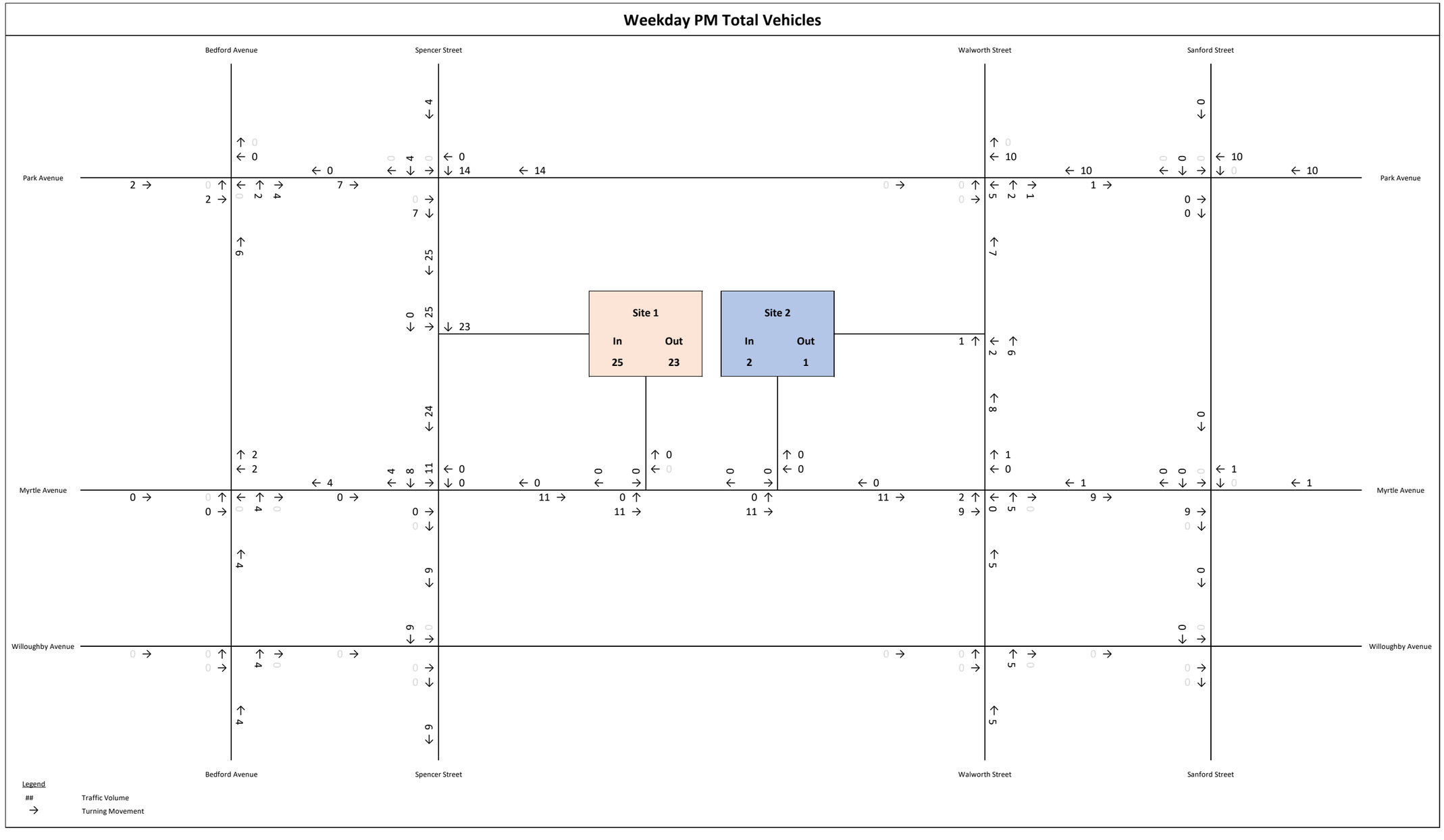


Figure 2.7-2: Weekday PM Vehicular Trip Assignment (2 of 2)

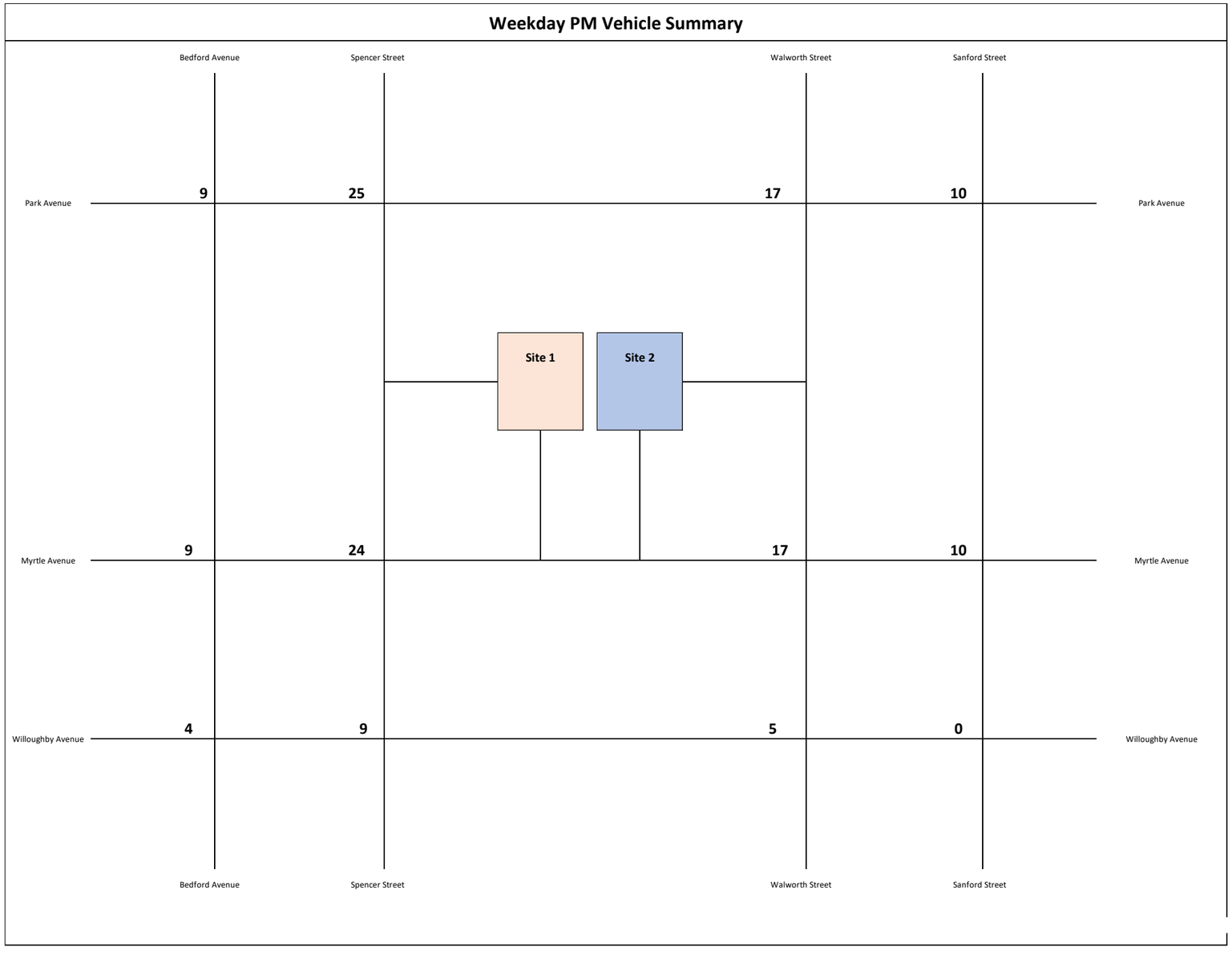


Figure 2.7-3: Saturday MD Vehicular Trip Assignment (1 of 2)

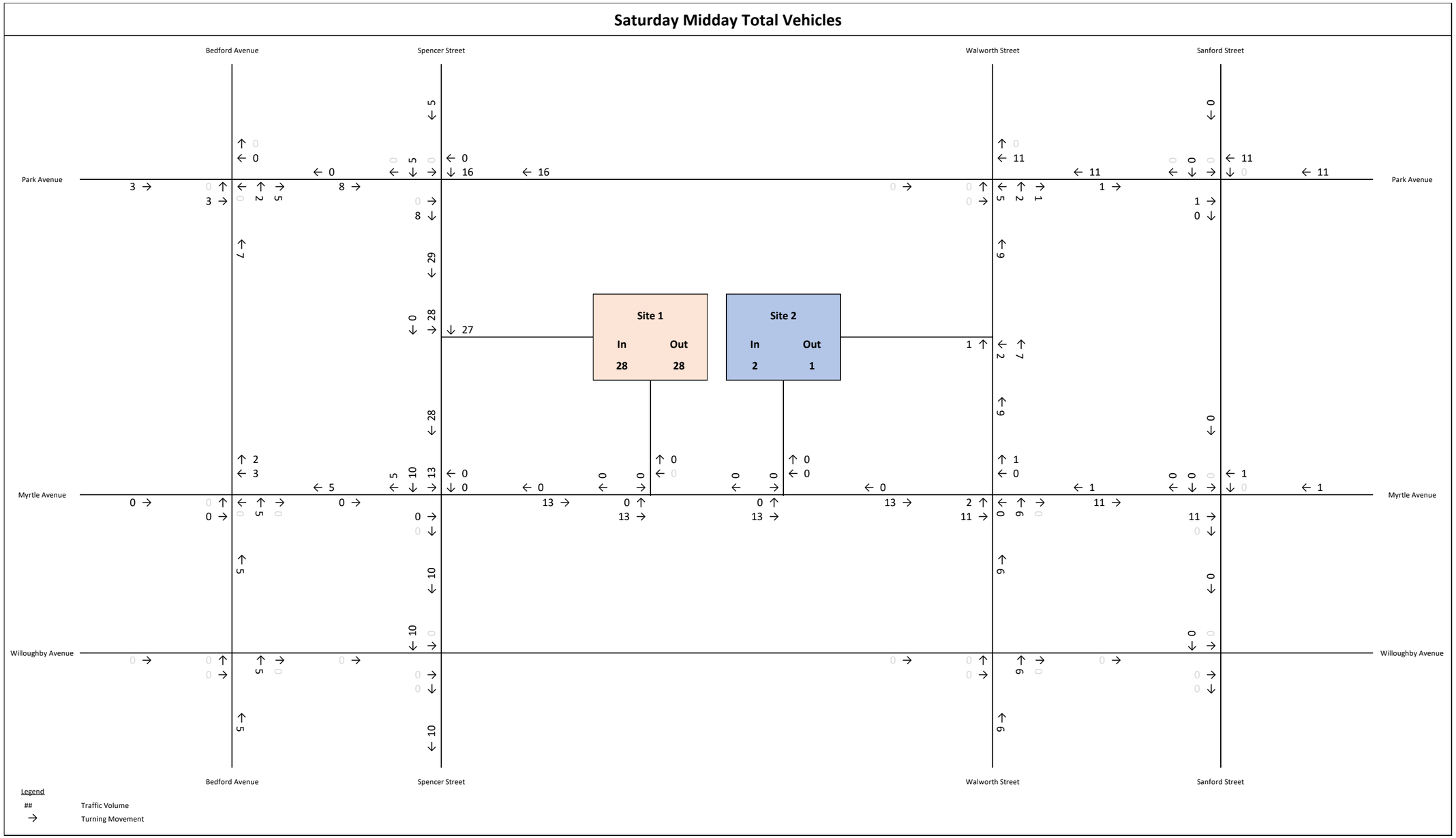


Figure 2.7-3: Saturday MD Vehicular Trip Assignment (2 of 2)

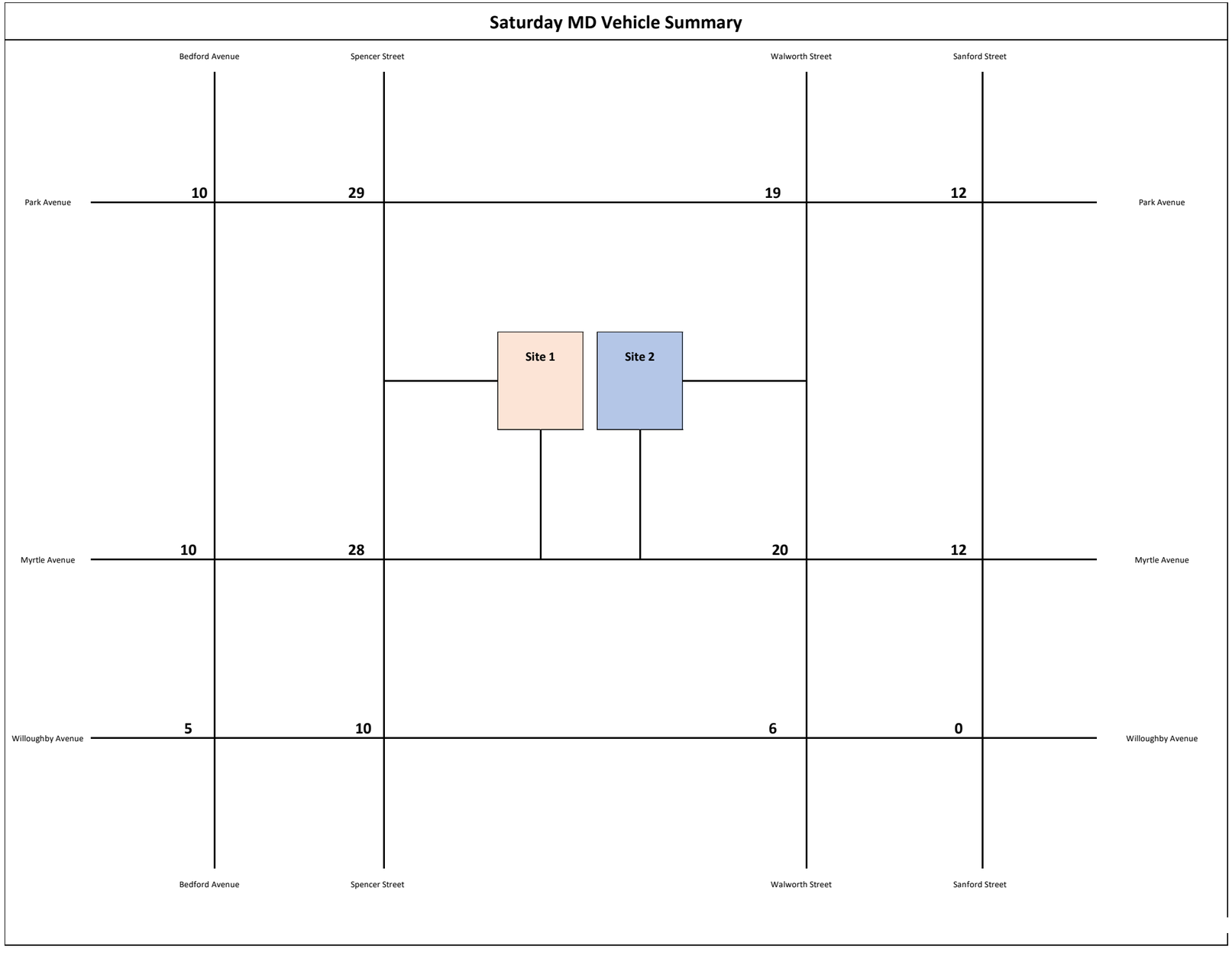


Figure 2.7-4: Weekday AM Projected Pedestrian Summary (1 of 3)

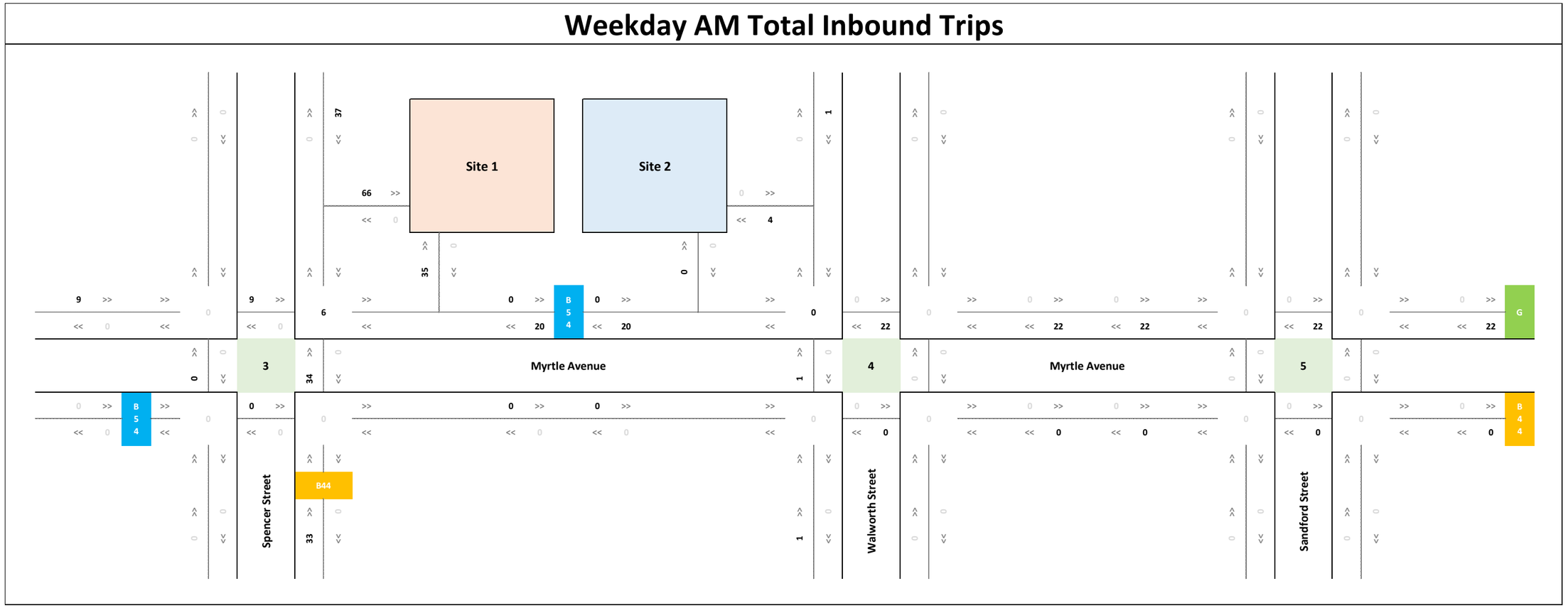


Figure 2.7-4: Weekday AM Projected Pedestrian Summary (2 of 3)

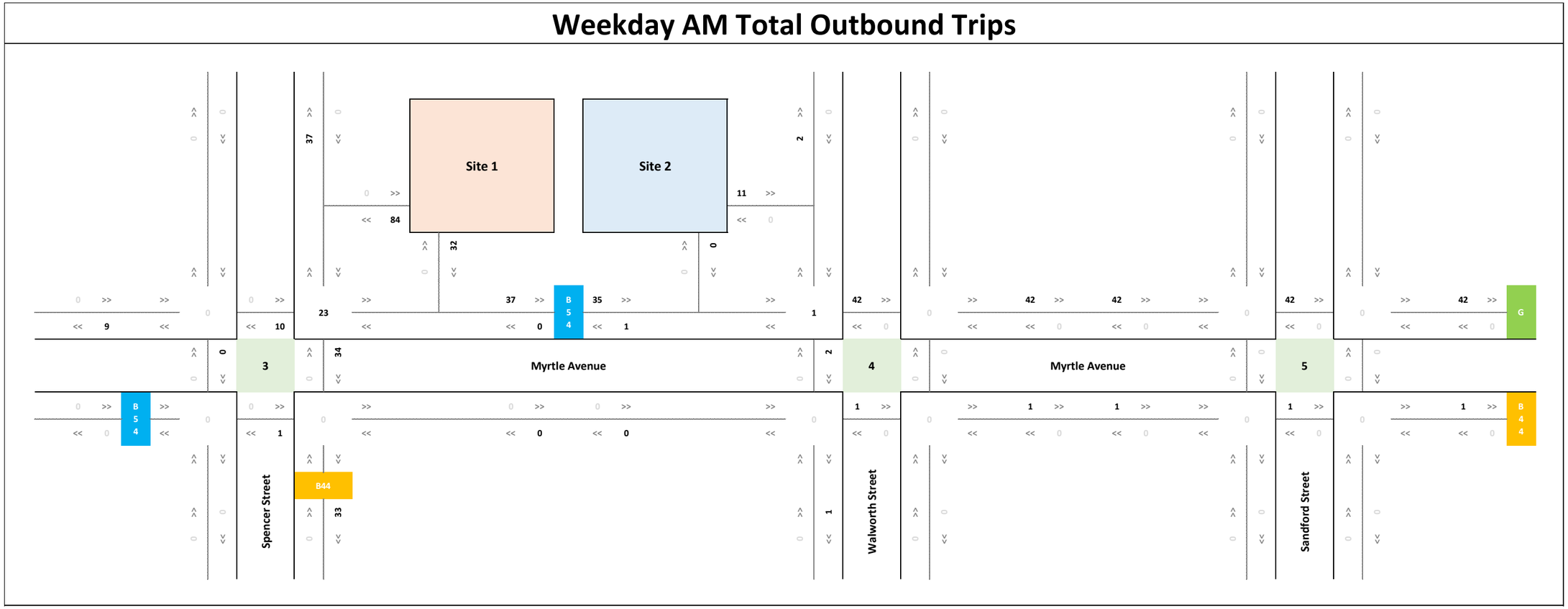


Figure 2.7-4: Weekday AM Projected Pedestrian Summary (3 of 3)

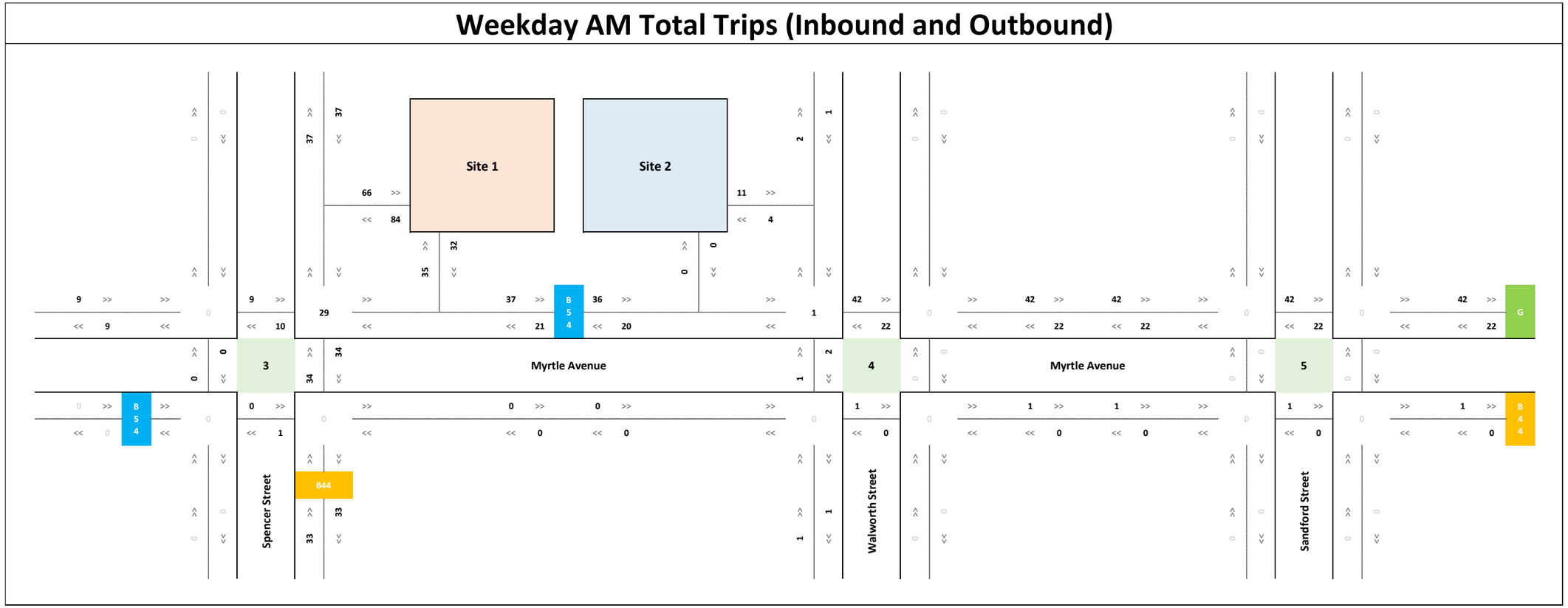


Figure 2.7-5: Weekday MD Projected Pedestrian Summary (1 of 3)

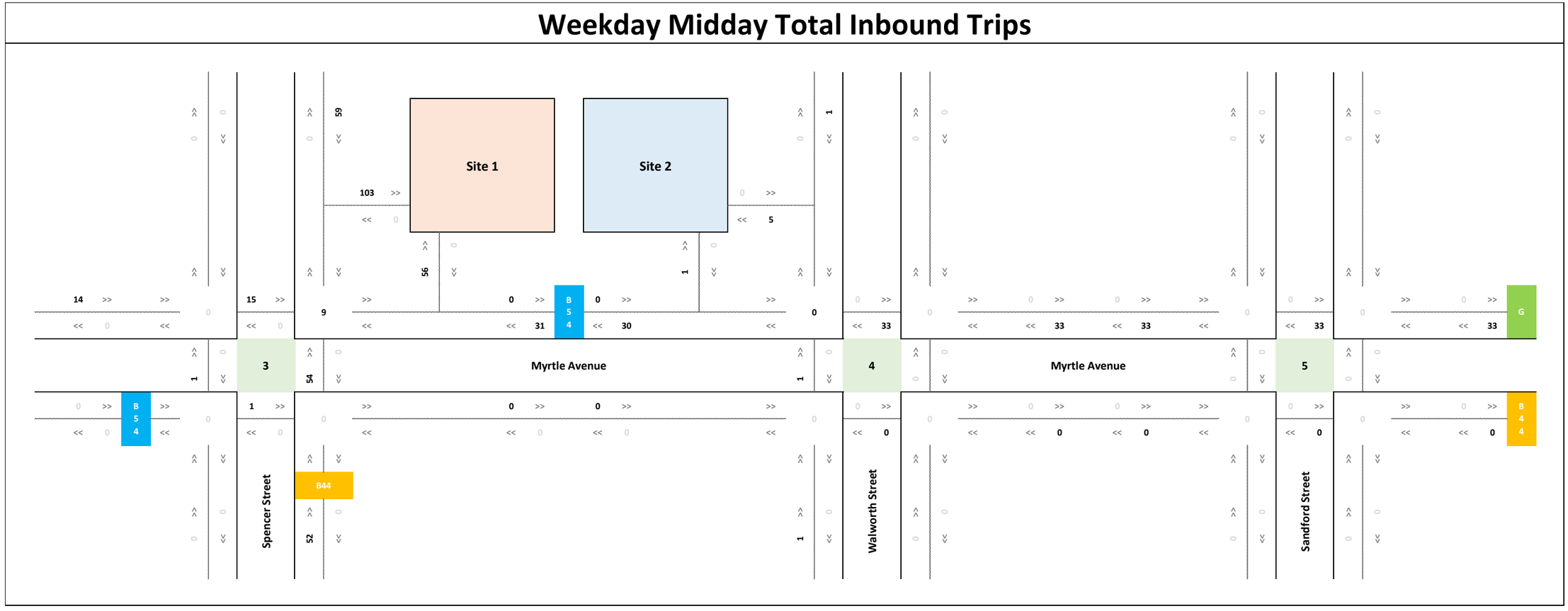

Weekday Midday Total Inbound Trips
Site 1
Site 2
Myrtle Avenue
Myrtle Avenue
Spencer Street
Walworth Street
Sandford Street
B44
B54
G
3
4
5
14
15
9
103
59
56
0
31
1
30
1
0
33
33
33
33
54
1
52
1
0
0
0

Figure 2.7-5: Weekday MD Projected Pedestrian Summary (2 of 3)

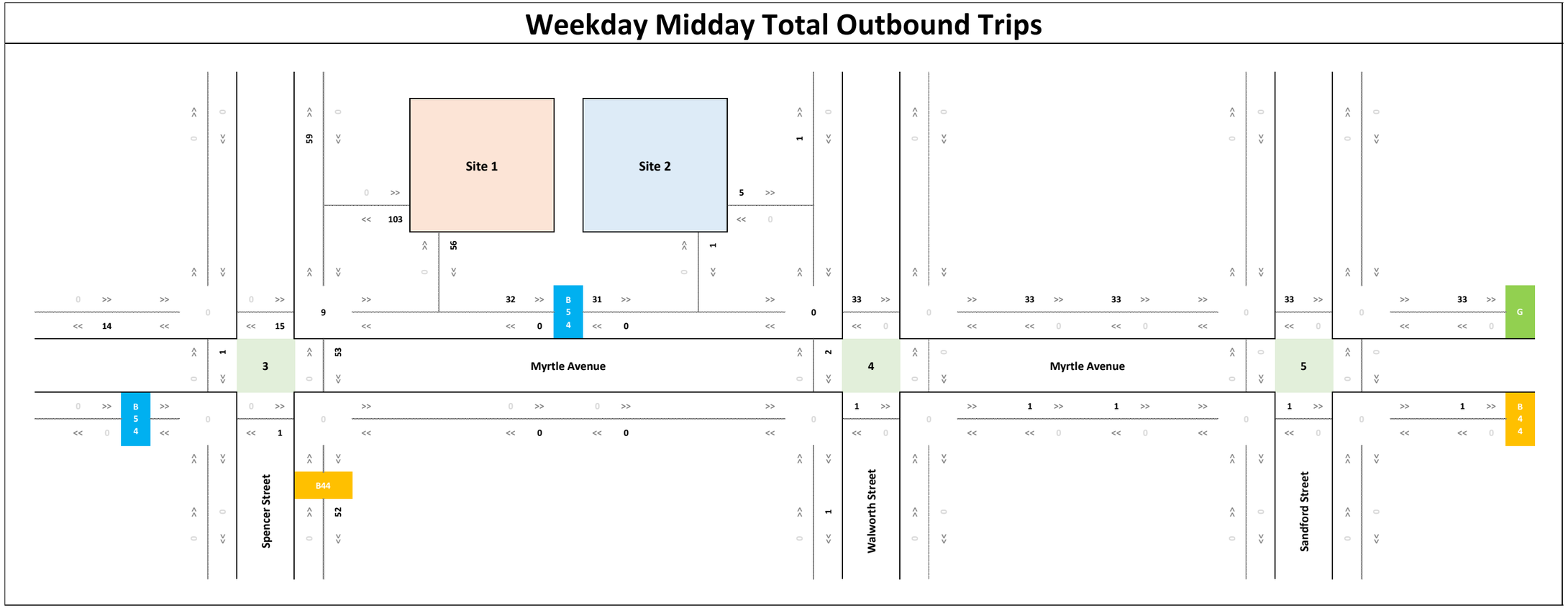


Figure 2.7-5: Weekday MD Projected Pedestrian Summary (3 of 3)

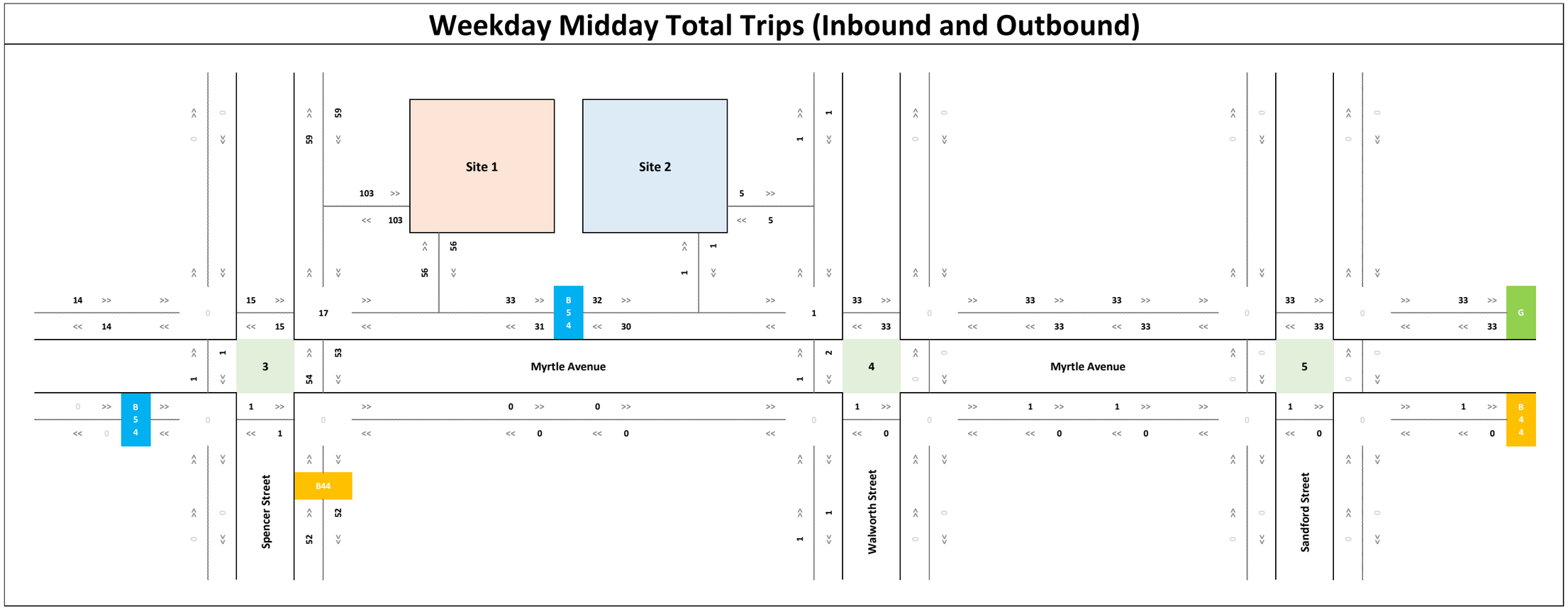


Figure 2.7-6: Weekday PM Projected Pedestrian Summary (1 of 3)

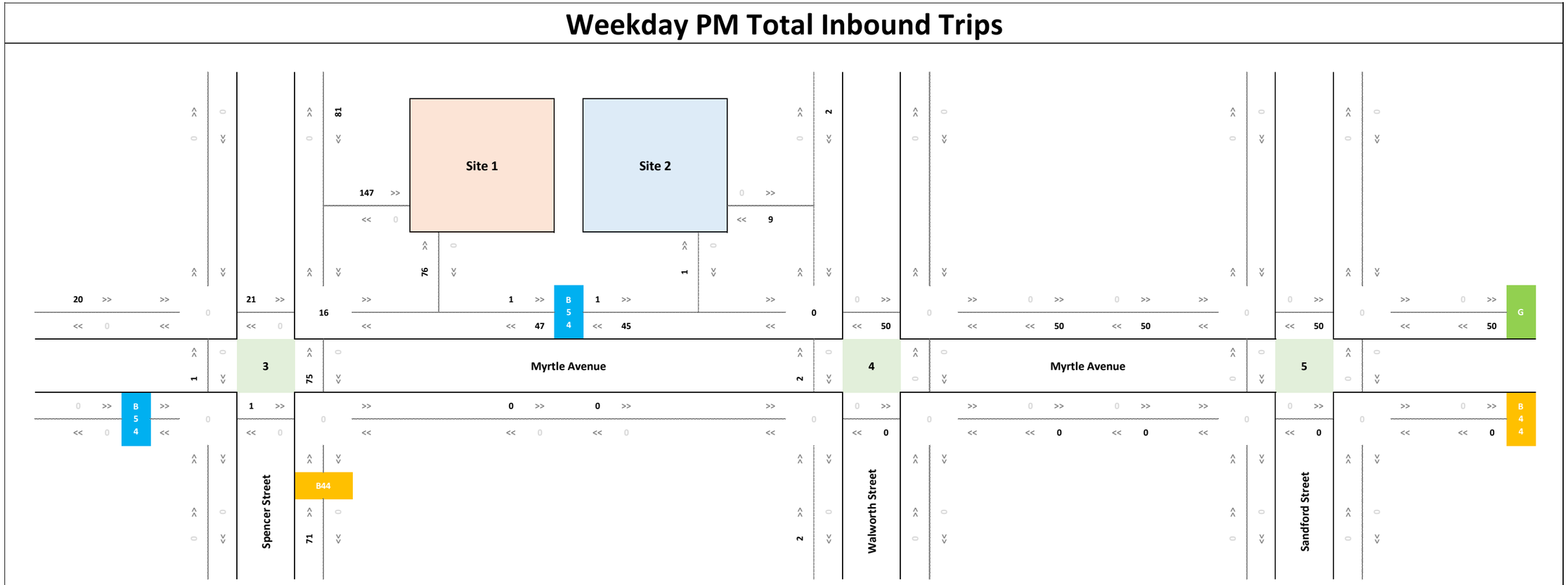


Figure 2.7-6: Weekday PM Projected Pedestrian Summary (2 of 3)

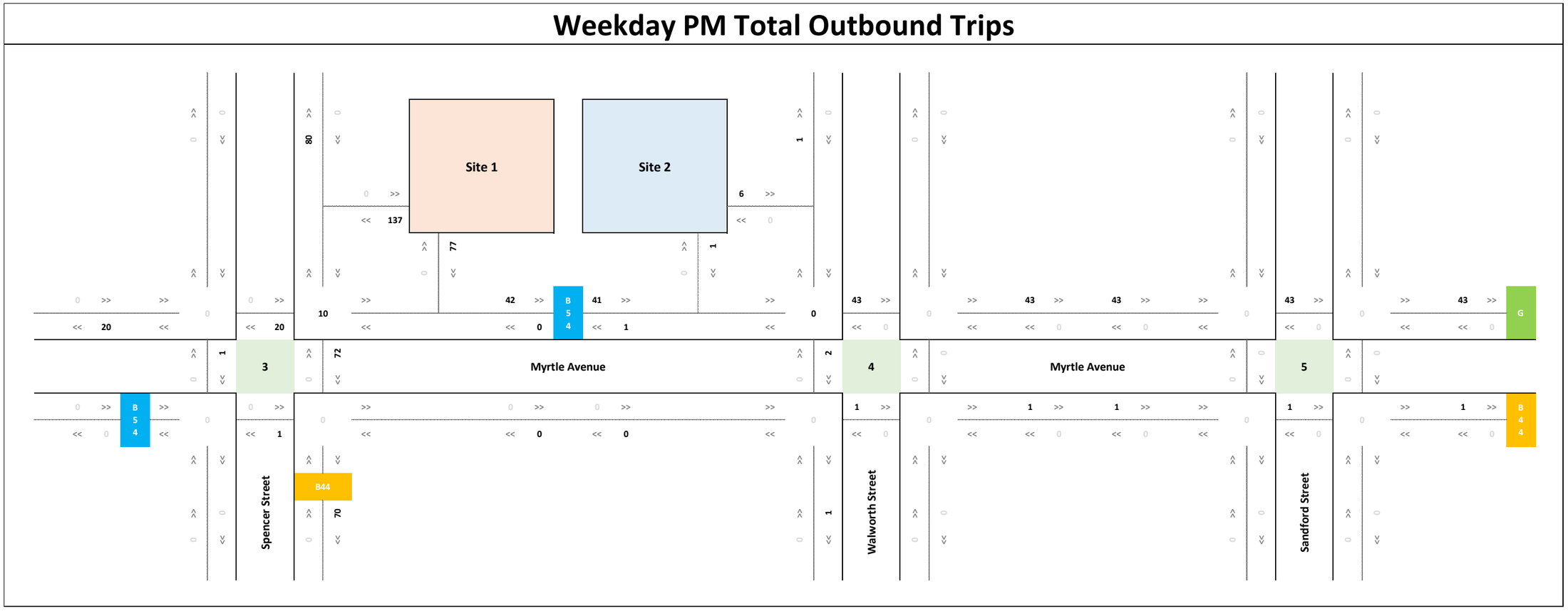


Figure 2.7-6: Weekday PM Projected Pedestrian Summary (3 of 3)

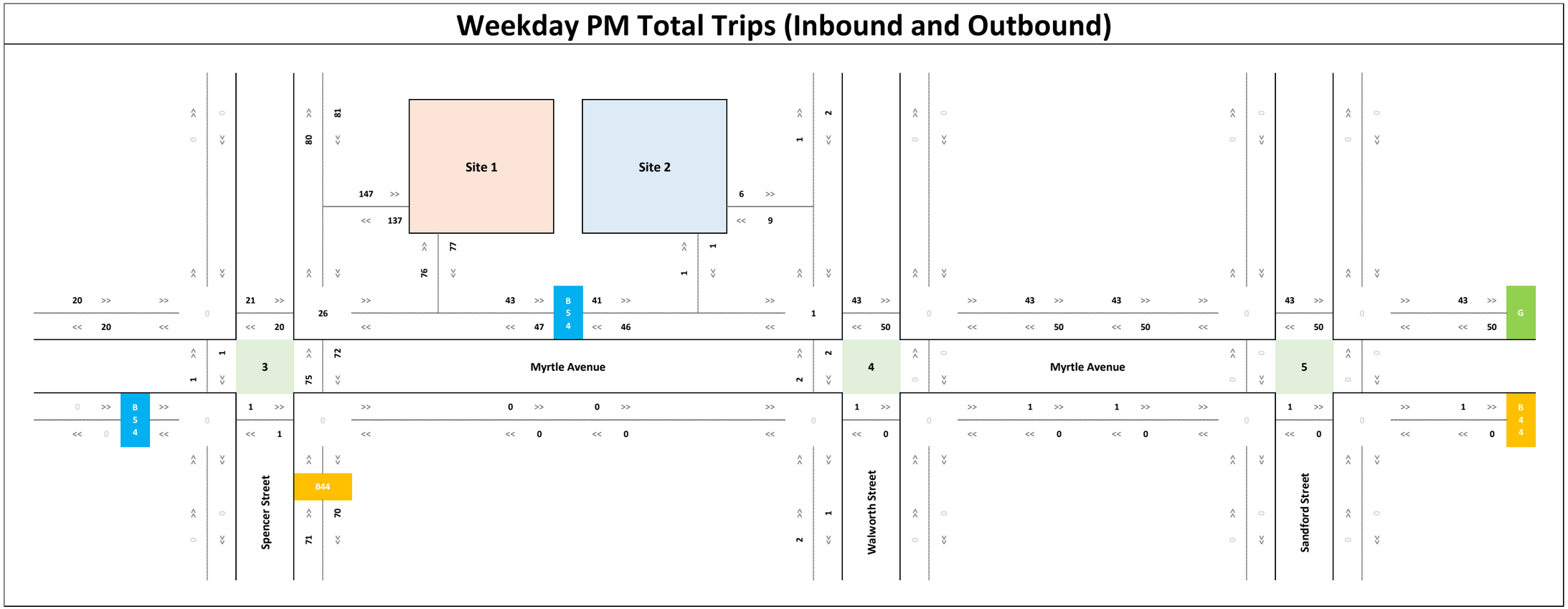


Figure 2.7-7: Saturday MD Projected Pedestrian Summary (1 of 3)

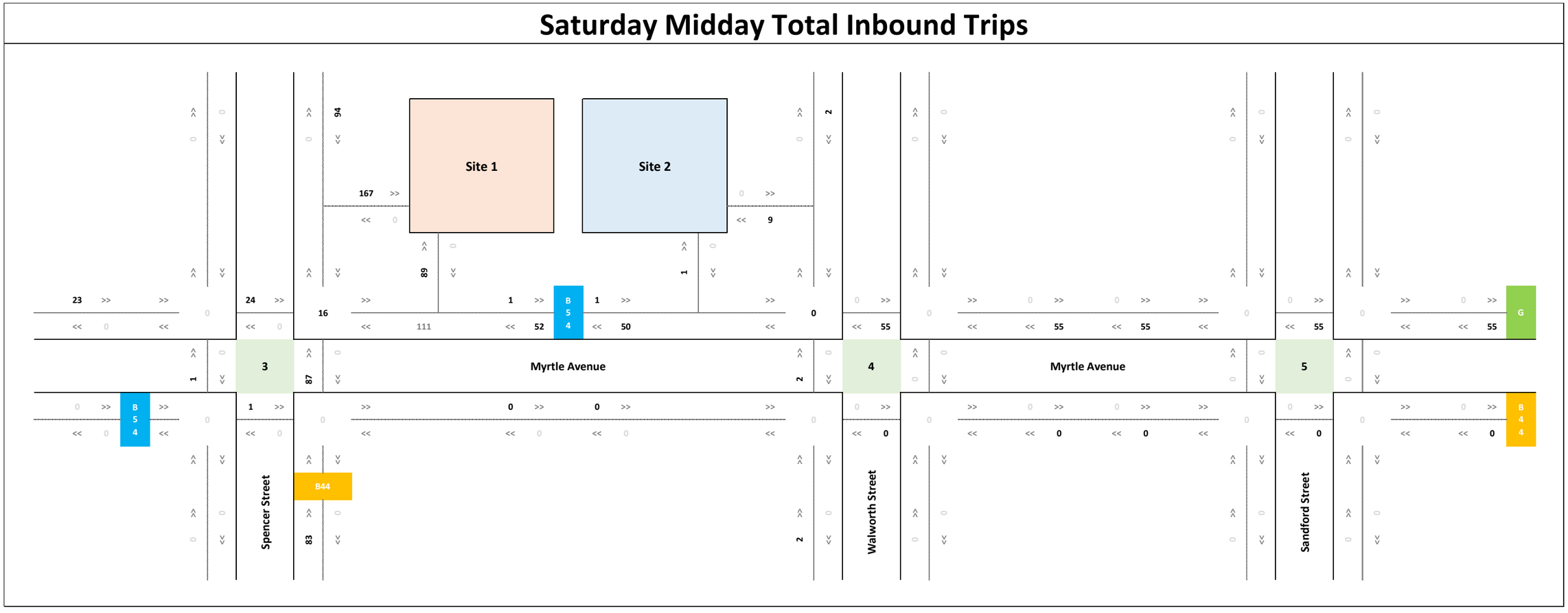


Figure 2.7-7: Saturday MD Projected Pedestrian Summary (2 of 3)

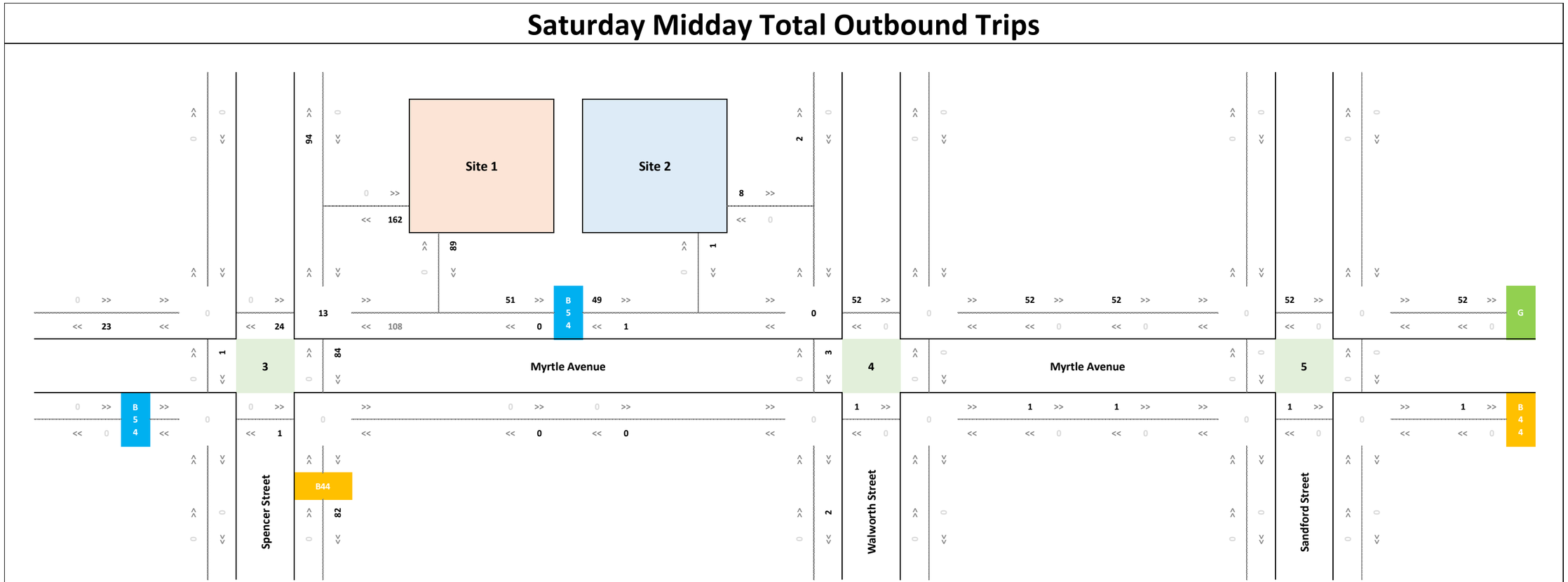


Figure 2.7-7: Saturday MD Projected Pedestrian Summary (3 of 3)

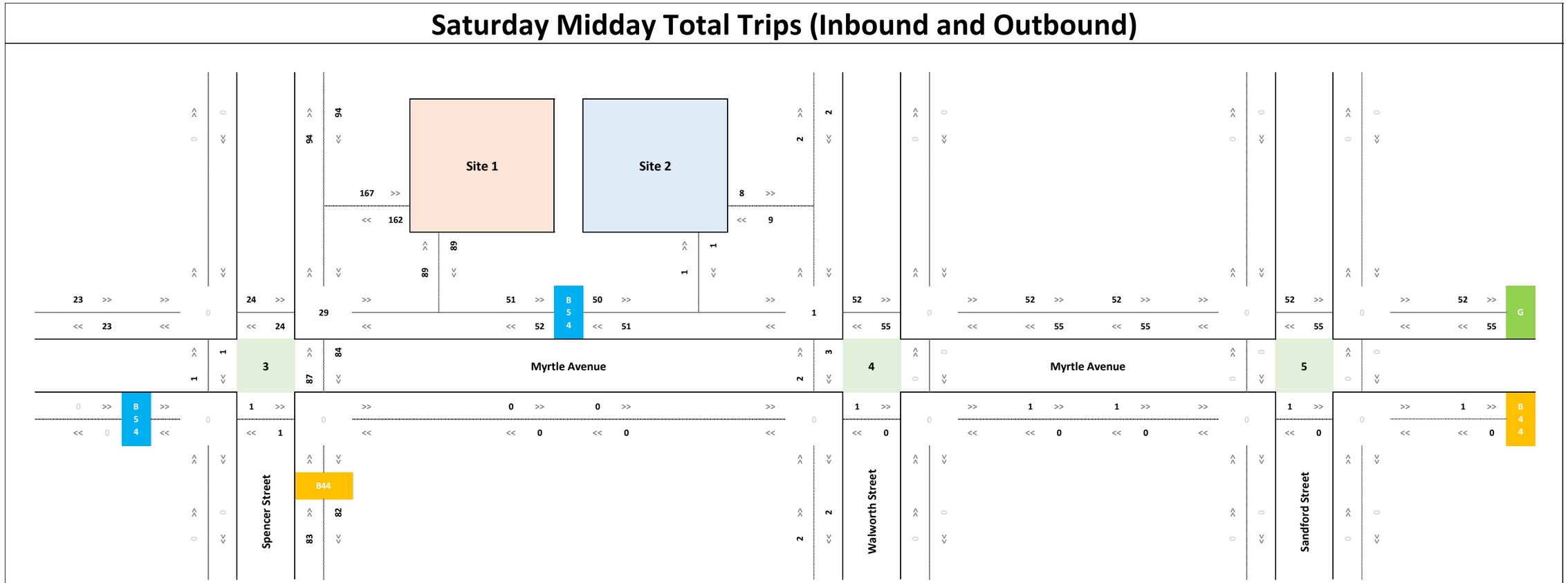


Table 2.7-5: Crosswalk Projected Pedestrian Trip Summary

Crosswalks		Weekday AM	Weekday Midday	Weekday PM	Saturday Midday
3 - Myrtle Avenue and Spencer Street	East	67	107	146	171
	West	1	1	2	2
	North	19	30	41	48
	South	1	1	2	2
4 - Myrtle Avenue and Walworth Street	East	0	0	0	0
	West	3	3	5	5
	North	63	66	94	107
	South	1	1	1	2
5 - Myrtle Avenue and Sanford Street	East	0	0	0	0
	West	0	0	0	0
	North	63	66	94	107
	South	1	1	1	2

Highlighted cells indicate CEQR threshold exceedances

Table 2.7-6: Corner Reservoir Projected Pedestrian Trip Summary

Corner Reservoirs		Weekday AM	Weekday Midday	Weekday PM	Saturday Midday
3 - Myrtle Avenue and Spencer Street	NE	116	154	**214**	**247**
	SE	69	108	148	173
	SW	2	2	4	4
	NW	20	31	43	50
4 - Myrtle Avenue and Walworth Street	NE	63	66	94	107
	SE	1	1	1	2
	SW	4	4	6	7
	NW	68	70	99	113
5 - Myrtle Avenue and Sanford Street	NE	63	66	94	107
	SE	1	1	1	2
	SW	1	1	1	2
	NW	63	66	94	107

Highlighted cells indicate CEQR threshold exceedances

Table 2.7-7: Sidewalk Projected Pedestrian Trip Summary

Sidewalks	Weekday AM	Weekday Midday	Weekday PM	Saturday Midday
East side of Spencer St between B44 Bus Stop & Willoughby Ave	65	104	142	165
North side of Myrtle Ave between Site 1 Entrance/Exit & Mid-block	58	64	90	103
North side of Myrtle Ave between Walworth St and Sanford St	63	66	94	107
North side of Myrtle Ave between Site 2 Entrance/Exit & Walworth St	56	62	87	100
North side of Myrtle Ave between Sanford St & Nostrand Ave	63	66	94	107

Highlighted cells indicate CEQR threshold exceedances

Level 2 Trip Assignment Summary

Based on the detailed assignment of vehicular trips, no intersections are projected to experience greater than 50 vehicles during the Weekday PM or Saturday Midday peak hour, and as such, no intersections have been selected for detailed LOS analysis.

Based on the assignment of pedestrian trips, and as shown in **Table 2.7-6** above, one corner element is projected to experience greater than 200 pedestrians during the Weekday PM and Saturday Midday peak hour. As such, one pedestrian element (the northeast corner of Myrtle Avenue and Spencer Street) has been selected for detailed LOS analysis.

2.7.3 Detailed Levels of Service Analysis

The pedestrian corner element was analyzed in accordance with the *2021 CEQR Technical Manual* guidelines. A description of this methodology is provided below.

Crosswalk and corner analyses are conducted at signalized intersections using the analytical procedures described in the 2010 Highway Capacity Manual (HCM 2010). The capacity of crosswalks and corners are evaluated based on pedestrian space measured in terms of square feet (sf) per pedestrian (ft2/p). To calculate pedestrian space, effective crosswalk widths and corner areas, hourly pedestrian volumes (crosswalk, corner, and sidewalk), conflicting hourly turning vehicles, average walking speed (3.5 feet/second or 3.0 feet/second if 20% of pedestrians are seniors and/or school children or the intersection is in a Senior Pedestrian Focus Area), and signal timing are required. **Table 2.7-8** shows the LOS criteria for crosswalks and corners based on pedestrian space.

Table 2.7-8: LOS Criteria for Crosswalks and Corners (Signalized Intersections)

LOS	Pedestrian Space (ft^2/p)
A	> 60
B	60 to > 40
C	40 to > 24
D	24 to > 15
E	15 to > 8
F	≤ 8

Source: Transportation Research Board. Highway Capacity Manual, 2010.

Significant Impact Criteria: Pedestrian Operations

The *2021 CEQR Technical Manual* provides guidance on the impact criteria for pedestrian facilities based on the general comfort and convenience levels of pedestrians, according to the location of the study area. Pedestrians in central business district (CBD) areas have become accustomed to higher pedestrian volumes and generally are more tolerant of restricted LOS conditions that might not be acceptable in other less congested (non-CBD) locations. An acceptable LOS for CBD areas is generally a mid-LOS D or better while an acceptable LOS for non-CBD areas is generally the upper limit of LOS C or better. For purposes of the pedestrian operations analysis, the pedestrian elements in the study area were considered to be part of a non-CBD area.

For corners and crosswalks at signalized intersections in non-CBD areas, the average pedestrian space under the With-Action condition that is considered acceptable ranges from LOS A through LOS C. If the pedestrian space deteriorates to LOS D or worse (less than 24.0 ft^2/p), significant impacts are determined based on a sliding scale, as follows:

- If the average pedestrian space under the No-Action Condition is greater than or equal to 26.6 ft^2/p, then a decrease to 24.0 ft^2/p or less under the With-Action Condition is considered a significant impact.
- If the average pedestrian space under the No-Action Condition is between 5.1 and 26.5 ft^2/p, a decrease in space under the With-Action Condition should be considered significant if it is greater than or equal to ((No-Action pedestrian space ft^2/p / 9.0) – 0.31). The With-Action Condition increments are provided in Table 16-12 in the *2021 CEQR Technical Manual*.
- If the average pedestrian space under the No-Action Condition is less than 5.0 ft^2/p, then a decrease in pedestrian space greater than or equal to 0.2 ft^2/p under the With-Action Condition is considered a significant impact.

Pedestrian Analysis Results

Existing Condition

The existing operations of the study area corner reservoir was assessed during the two peak hours: Weekday PM and Saturday Midday. Weekday and Saturday pedestrian counts were conducted in December 2022 during the peak periods. Count dates were selected to avoid the NYC DOT holiday embargo period.

The count data was summarized into one-hour intervals and the following peak hours were selected for the analysis:

- Weekday PM: 4:00 PM to 5:00 PM
- Saturday Midday: 12:00 PM to 1:00 PM

As presented in **Table 2.7-9**, the corner reservoir included in the transportation analysis operates at LOS A during both peak hours in the Existing Condition.

Table 2.7-9: Existing Condition LOS Analysis

Location	Available Circulation Space (ft^2/p)		Corner Circulation LOS	
	Weekday	Sat	Weekday	Sat
	PM	Midday	PM	Midday
Spencer St and Myrtle Ave (NE corner)	156	266	A	A

No-Action Condition

The future without the Proposed Actions (the "No-Action Condition") builds on the Existing Condition analysis by incorporating background growth, other nearby projects expected to be completed by the analysis year (2027), potential trips generated by the Project Site under the current zoning, and anticipated changes in the transportation network. The No-Action Condition analysis focuses on conditions in 2027, when the Proposed Project is expected to be complete. The analysis of the No-Action Condition serves as the baseline to which the future condition with the project (the "With-Action Condition") will be compared to identify potential impacts.

The *2021 CEQR Technical Manual* guidelines (Table 16-4) provide an annual background growth rate for this area of Brooklyn ("Other Brooklyn") of 0.50 percent for the first five years and 0.25 percent for the years beyond. The annual growth rates were applied, for five years, to the 2022 Existing Condition volumes to develop the 2027 No-Action Condition background pedestrian volumes. No background developments or transportation network improvement projects were included.

As presented in **Table 2.7-10**, the corner reservoir included in the transportation analysis is projected to operate at LOS A during both peak hours during the No-Action Condition.

Table 2.7-10: No-Action Condition LOS Analysis

Location	Available Circulation Space (ft^2/p)		Corner Circulation LOS	
	Weekday	Sat	Weekday	Sat
	PM	Midday	PM	Midday
Spencer St and Myrtle Ave (NE corner)	152	260	A	A

With-Action Condition

The With-Action Condition results for the corner reservoir location were compared with the No-Action Condition results for both peak hours. As shown in **Table 2.7-11,** the corner reservoir is projected to operate at LOS A during both peak hours. Therefore, according to the significant adverse impact criteria defined for

pedestrian elements in the *2021 CEQR Technical Manual*, the Proposed Project would not result in any significant adverse corner impacts during any peak hour.

Table 2.7-11: With-Action Condition LOS Analysis

Location	Available Circulation Space (ft^2/p)		Corner Circulation LOS	
	Weekday	Sat	Weekday	Sat
	PM	Midday	PM	Midday
Spencer St and Myrtle Ave (NE corner)	96	129	A	A

Safety Assessment

Crash data for the intersection of Spencer Street and Myrtle Avenue was obtained from NYC DOT for the most recent three-year time period available (January 1, 2018 through December 31, 2020) to quantify the total number of reportable crashes (involving fatality, injury, or more than $1,000 in property damage), fatalities, and injuries during the study period, as well as a yearly breakdown of pedestrian- and bicycle-related crashes at each location. According to the 2021 CEQR Technical Manual, a high-crash location is a location one with five or more pedestrian/bicycle injury crashes during any consecutive 12 months of the most recent three-year period for which data is available. In addition, any location along a Vision Zero priority corridor with three or more pedestrian/bicycle injury crashes in any consecutive 12 months of the most recent three-year period for which data is available should be identified as a high-crash location.

Table 2.7-12 depicts total crashes at the intersection during the three-year period, as well as a breakdown of pedestrian and bicycle crashes by year. During this three-year period, 12 total crashes, including no pedestrian- or bicycle-related crashes, occurred at the intersection.

Table 2.7-12: Crash Data

Intersection	Total Crashes			Pedestrian			Bicycle		
	2018	2019	2020	2018	2019	2020	2018	2019	2020
Spencer St and Myrtle Ave	5	3	4	0	0	0	0	0	0

While Myrtle Avenue has been identified as a Vision Zero priority corridor by NYC DOT per the latest Vision Zero update in 2019[4], the study intersection did not exceed the *2021 CEQR Technical Manual* crash data thresholds. Therefore, this study intersection would not classify as a high-crash location and no safety improvements are recommended at this time.

[4] https://www1.nyc.gov/html/dot/downloads/pdf/vz-2019-update-city-hall.pdf

2.8 Air Quality

Introduction

Ambient air quality, or the quality of the surrounding air, may be affected by air pollutants produced by motor vehicles, referred to as "mobile sources"; by fixed facilities, usually referenced as "stationary sources"; or by a combination of both. Under CEQR, an air quality assessment determines both a proposed project's effects on ambient air quality and the effects of ambient air quality on the project.

In the future with No-Action Scenario is the same as the existing conditions in which the Projected Development Site 1 remains vacant. The non-applicant-owned sites would also remain in their existing conditions. No alternate plans for Projected Development Site 1 have been filed with the DOB, and the existing M1-1 zoning district's high parking requirement (1 space per 300 SF of uses) and low FAR (1.00) make redevelopment unlikely.

Under the With-Action Scenario the two Projected Development Sites are expected to be developed with two new, mixed-use residential and commercial, developments:

> Under the With-Action Scenario, it is assumed that the Applicant's Development Site (Block 1735, Lot 39) would be developed with an 11-story (115-foot-tall) 72,349 GSF (48,211 ZSF; 5.60 FAR) mixed commercial and residential building that would include 65 dwelling units within 53,128 gsf of residential floor area (44,288 ZSF; 5.14 FAR), 12,497 gsf (3,923 ZSF; 0.46 FAR) of ground floor commercial space, and 6,724 GSF of parking comprised of 16 off-street parking spaces in the cellar of the proposed building.
>
> Three non-applicant-owned lots, Block 1735, Lots 33, 34, and 35, would assemble to form a 4,800-sf corner lot. The building would be 31,196 gsf (26,880 ZSF; 5.60 FAR) and rise to a height of 115 feet at 11 stories tall. There would be 25,142 gsf of residential floor area on floors 2 through 11 with 27 dwelling units. The ground floor would contain 3,744 gsf of commercial local retail. A 2,310 gsf cellar would contain 7 enclosed residential accessory parking spaces.

Air Quality Standards, Regulations, and Benchmarks

Criteria Pollutants

The EPA has established national ambient air quality standards (NAAQS) for six of the most common air pollutants—known as "criteria" pollutants. The presence of these pollutants in ambient air is generally due to numerous diverse and widespread sources of emissions. The NAAQS primary standards are designed to protect public health with an adequate margin of safety. The NAAQS secondary standards are designed to protect the public welfare from adverse effects, including those related to effects on soils, water, vegetation, visibility, and other aspects. As required by the Clean Air Act, EPA periodically conducts comprehensive

reviews of the scientific literature on health and welfare effects associated with exposure to the criteria air pollutants. The NAAQS have been adopted as the ambient air quality standards for the State of New York.

The New York State Department of Environmental Conservation (NYSDEC) measures air pollutants at more than 50 sites across the state using continuous and/or manual instrumentation. These sites are a mix of federally-mandated and supplemental monitoring networks. The primary NAAQS and background concentrations from the nearest federally-mandated monitoring station(s) of the pollutant(s) that a detailed analysis was conducted for are presented in **Table 2.8-1**.

Table 2.8-1: NAAQS and Background Concentration Published in the NYSDEC 2020 Report

Pollutant	Averaging Period	National and State Standards	Background Concentration	Monitoring Station
NO_2	1-Hour	188 µg/m^3	99.8 µg/m^3	Queens College
	Annual	100 µg/m^3	23.5 µg/m^3	
$PM_{2.5}$	24-Hour	35 µg/m^3	18.7 µg/m^3	JHS 126
	Annual	12 µg/m^3	7.6 µg/m^3	
PM_{10}	24-Hour	150 µg/m^3	24 µg/m^3	Division Street
CO	1-Hour	35 ppm	2.13 ppm	Queens College
	8-Hour	9 ppm	1.60 ppm	
SO_2	1-Hour	196 µg/m^3	15.1 µg/m^3	
	Annual (2)	80 µg/m^3	0.9 µg/m^3	

Note:
1. Part per million (ppm); microgram per meter cube (µg/m^3).
2. 6 CRR-NY 257-2.3 for annual SO2 standard: "During any 12 consecutive months, the annual average of the 24-hour average concentrations shall not exceed 0.03 ppm.

NO2 NAAQS

The 1-hour nitrogen dioxide (NO2) NAAQS was promulgated in the United States in February 2010. The 1-hour standard is based on a percentile rank from the annual distribution of daily maximum 1-hour values, averaged across the number of years processed. The 1-hour NO2 modeled design value is based on the 98th percentile, or 8th highest, of the daily maximum 1-hour values across the year. For typical multi-year modeling analysis based on 5 years of National Weather Service (NWS) meteorological data, the modeled design value is the 5-year average of the 8th highest values for NO_2.

Nitrogen oxides (NOx) emissions from combustion consist predominantly of nitric oxide (NO) at the source. The NOx in these emissions is then gradually converted to NO_2. For determining compliance with the 1-hour standard, the EPA has developed a three-tiered modeling approach: a) Tier 1, the most conservative approach, assumes a full (100%) conversion of NOx to NO_2; b) Tier 2 is the Ambient Ratio Method 2 (ARM2) which assumes ambient equilibrium between NO and NO_2. ARM2 adjusts the modeled NOx concentrations based on an empirical relationship between ambient NOx and ambient NO_2 concentrations; and c) Tier 3, which is the most precise approach, accounts for the chemical transformation of NO emitted from the stack to NO_2 within the source plume using hourly ozone background concentrations.

NYC Guidelines - Determining the Significance of Air Quality Impacts

The City's de minimis criteria are used to determine the significance of the incremental increase in CO and PM2.5 concentrations that would result as a consequence of the proposed project. The CO criteria set the minimum change in 8-hour average CO concentration that constitutes a significant environmental impact. Significant increase of CO concentrations in New York City are:

- An increase of 0.5 parts per million (ppm) or more in the maximum 8-hour average CO concentration at a location where the predicted No-Actions 8-hour concentration is equal to 8 ppm or between 8 ppm and 9 ppm; or
- An increase of more than half the difference between baseline (i.e., No-Actions) concentrations and the 8-hour standard, when No-Actions concentrations are below 8 ppm.

The following criteria are used for the determination of significant adverse PM2.5 incremental impacts for projects subject to the CEQR:

- Predicted 24-hour maximum PM2.5 concentration increase of more than half the difference between the 24-hour background concentration and the 24-hour standard; or
- Predicted annual average PM2.5 concentration increments greater than 0.1 µg/m3 at ground level on a neighborhood scale (i.e., the annual increase in concentration representing the average over an area of approximately 1 square kilometer, centered on the location where the maximum ground-level impact is predicted for stationary sources; or for mobile sources, at a distance from a roadway corridor similar to the minimum distance defined for locating neighborhood scale monitoring stations); or
- Predicted annual average PM2.5 concentration increments greater than 0.3 µg/m3 at any receptor location for stationary sources.

Accordingly, 8-hour CO de minimis is an increment 3.70 ppm, 24-hour $PM_{2.5}$ *de minimis* is an increment of 8.15 µg/m3, and annual $PM_{2.5}$ concentration increments of 0.3 µg/m3 for stationary source and 0.1 µg/m3 for mobile source.

Non-Criteria Pollutants

The NYSDEC Department of Air Resources established short-term (one-hour) and annual concentrations standards for certain noncriteria pollutants. The standards are acceptable ambient levels for these pollutants, which are based on human exposure. The New York State standards for noncriteria pollutants are published in the DAR-1 guidance document (version dated February 12, 2021). DAR-1 presents Annual and Short-Term Guideline Concentrations (AGCs and SGCs, respectively) for contaminants that range in toxicity from high to low. The AGCs and SGCs are annual and 1-hour guideline concentrations, respectively, for potentially

toxic or carcinogenic air contaminants. In addition, NYSDEC also regulates pollutants that produce discomfort due to odors, where significant discomfort is evaluated on quantity, characteristic, or duration.

Mobile Sources

According to the *CEQR Technical Manual*, projects may result in significant mobile source air quality impacts when they increase or cause a redistribution of traffic, create any other mobile sources of pollutants (e.g., diesel trains, helicopters, boats), or add new uses near mobile sources (e.g., roadways, garages, parking lots). Detailed analyses are required to predict whether a Proposed Action could potentially result in significant adverse air quality impact if certain threshold criterions are met or exceeded. Proposed Actions that do not meet or exceed the threshold criterions (screen out) are not expected to result in mobile source impacts.

Screening Assessment

Project-Generated Traffic

Peak hour trip generation is far below the 170-car threshold, as per the transportation section, as potentially warranting further assessment. As per the vehicular assignment provided in the Transportation chapter, the worst case of maximum incremental trip-ends generated by the project is 29 at the intersection of Spencer Street and Park Avenue Saturday MD peak hour. Under the guidance with DCP in consultation with DEP, the Proposed Project is not expected to create any potential significant adverse air quality impact from mobile source. As such, mobile source HDDV impact analysis is not warranted.

Parking Facility

The Proposed Actions would facilitate 16 parking spaces in the cellar of Projected Development Site 1 and 7 parking spaces in the cellar of Projected Development Site 2 under the RWCDS With-Action Condition. The number of off-street parking spaces (23) is less than the threshold increment of 85 new off-street parking spaces. Therefore, an analysis of parking garage air quality conditions is not warranted, and no significant adverse impacts are anticipated as a result of the Proposed Actions.

Existing Mobile Source of Pollutants

According to *CEQR Technical Manual*, projects that would result in new sensitive uses within 200 feet of an atypical roadway or near an existing parking facility may result in significant mobile source air quality impacts. These impacts are estimated at sensitive receptors located at air intakes, operable windows, and terraces of the receptor building. There is no atypical roadway within 200 feet of the proposed project, and there are no large parking facilities located near the proposed project. Therefore, no analysis was required, and no mobile source significant adverse air quality impacts are expected to the proposed project from vehicular emission generated at an existing nearby mobile source of pollutant.

Stationary Sources

According to CEQR, an action can result in stationary source air quality impacts when it creates new stationary sources of pollutants such as emission stacks for industrial plants, hospitals, or other large institutional uses, or even building boilers- that can affect surrounding uses, or when they introduce sensitive uses near existing (or planned future) emissions stacks, and the new uses might be affected by the emissions from the stack.

Heating and Hot Water Systems

The heating/hot water, ventilation, and air conditioning (HVAC) systems analysis considers the potential for emissions from the HVAC system(s) of a Proposed Action(s) to result in development that significantly impacts existing land uses (project-on-existing), and the potential of a proposed project to significantly impact each other (project-on-project). Based on the *CEQR Technical Manual*, a preliminary screening assessment is to be conducted as a first step to predict whether the potential impacts of the heat and hot water system(s) boiler emissions can be significant. The screening analysis determines the threshold of a development size below which the action would not have a significant impact.

Screening Assessment

The potential for the heat and hot water system(s) to have a significant adverse impact on nearby receptors depends on the type of fuel that would be used by the HVAC system, the height of the stack venting the emissions, the distance to the nearest building of similar or greater height, and the building's use and the square footage of the development that would be served by the system, both of which effect the amount of fossil fuel consumed. The *CEQR Technical Manual* screening assessment is based on these factors. In addition, the CEQR screening procedure is applicable to buildings that are not less than 30 feet from the nearest building of similar or greater height. A detailed analysis is required if the screening assessment failed.

The *CEQR Technical Manual* Figure 17-3 nomograph was used for the screening assessment. This stationary source screen is a generic screen for heat and hot water systems. The nomograph depicts the size of the development versus the distance below which the potential impact can occur and provides a conservative estimate of the threshold distance.

Projected Development Site 1 Reasonable Worst Case Scenario (RWCDS) would facilitate a predominantly residential, 115 feet tall building, containing 72,349 gross square feet (gsf). However, the Applicant's Proposed Development is a 95-foot-tall building. A 95-foot-tall building was considered for the screening analysis. Projected Development Site 2 RWCDS would facilitate a predominantly residential, 115 feet tall building, containing 31,196 gsf.

Based on the methodology above, Projected Development Sites 1 and 2 combined 103,535 gsf was analyzed as a 95-foot-tall building (Applicant's Proposed Development). Roof heights of buildings in the area were

obtained from the NYC Building Footprint database.[6] A distance of 400 feet was used in the screening analysis as no other building within 400 feet of the Proposed Project is 95-foot or higher. **Figure 2.8-1** (using Figure 17-3 of the *CEQR Technical Manual)* shows the Proposed Project (Projected Development Sites 1 and 2 combined gsf) screening nomograph on existing land uses.

As seen in the screening analysis (see **Figure 2.8-1**), using the nomograph provided in the *CEQR Technical Manual*, the Proposed Project gsf falls below the curve for heat and hot water systems. Therefore, the Proposed Project passes the HVAC screen on existing land uses.

The methodology above was used for the project-on-project screening assessment. **Figure 2.8-2** shows the Projected Development Site 1 72,349 gsf building screening analysis on Projected Development Site 2. A distance of 60 feet was used in the screening analysis, which is the distance between the Projected Development Site 1 and Projected Development Site 2.

As seen in the screening analysis (see **Figure 2.8-2**), using the nomograph provided in the *CEQR Technical Manual*, the Projected Development Site 1 on Projected Development Site 2 falls above the curve for heat and hot water system. Therefore, a detailed analysis is required.

The Projected Development Site 1 RWCDS height of 115 feet was considered for the Projected Development Site 2 screening on Projected Development Site 1. **Figure 2.8-3** shows the Projected Development Site 2 31,196 gsf building screening analysis on Projected Development Site 1. A distance of 60 feet was used in the screening analysis, which is the distance between the Projected Development Site 2 and Projected Development Site 1.

As seen in the screening analysis (see **Figure 2.8-3**), using the nomograph provided in the *CEQR Technical Manual*, the Projected Development Site 2 on Projected Development Site 1 intersect the curve for heat and hot water system. Therefore, a detailed analysis is required.

[6] City of New York, nyc-geo-metadata (May 03, 2016); https://data.cityofnewyork.us/Housing-Development/Building-Footprints/nqwf-w8eh

Figure 2.8-1: Project-on-Existing – HVAC Screen

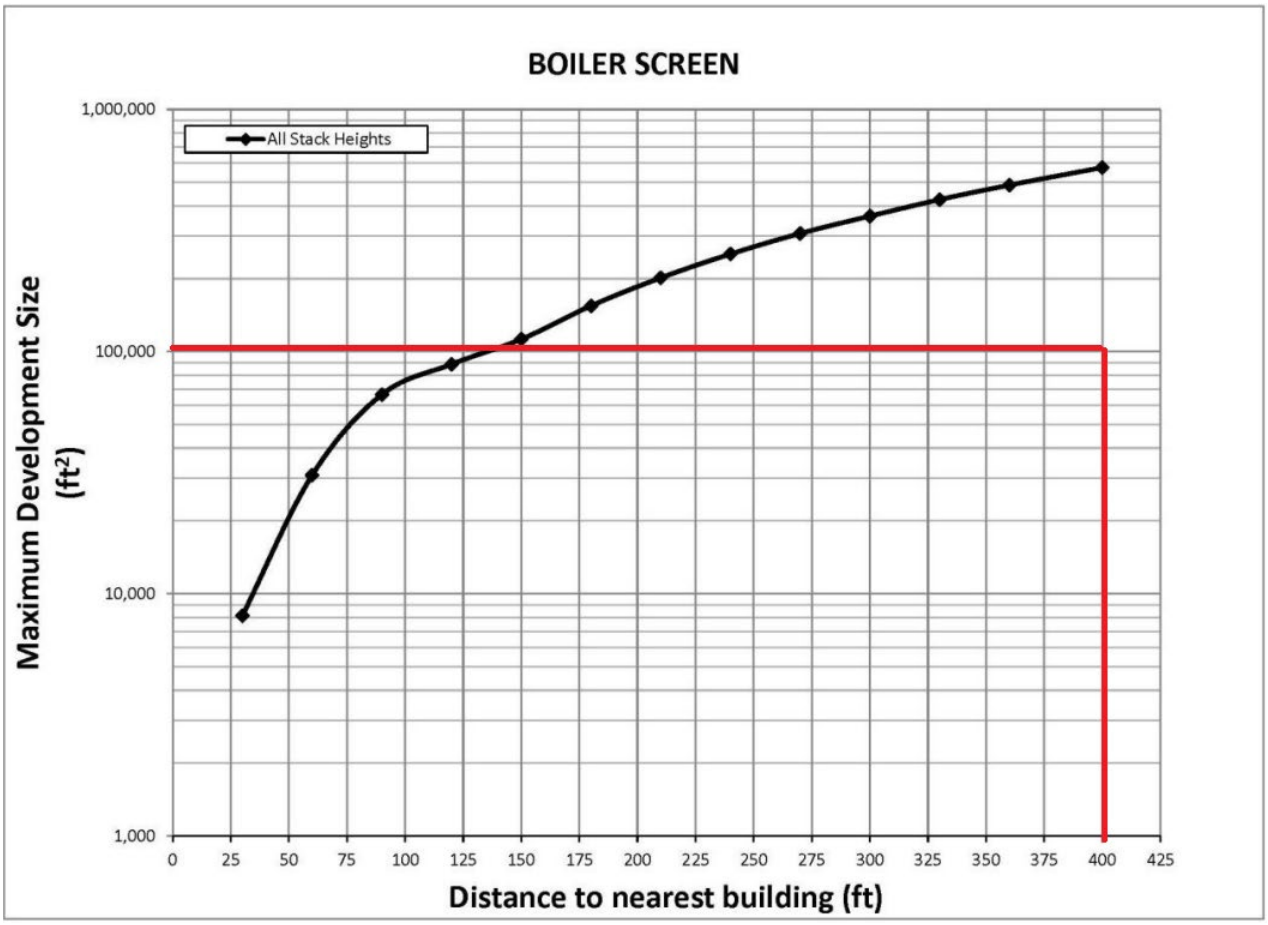


Figure 2.8-2: Projected Development Site 1 on Projected Development Site 2 – HVAC Screen

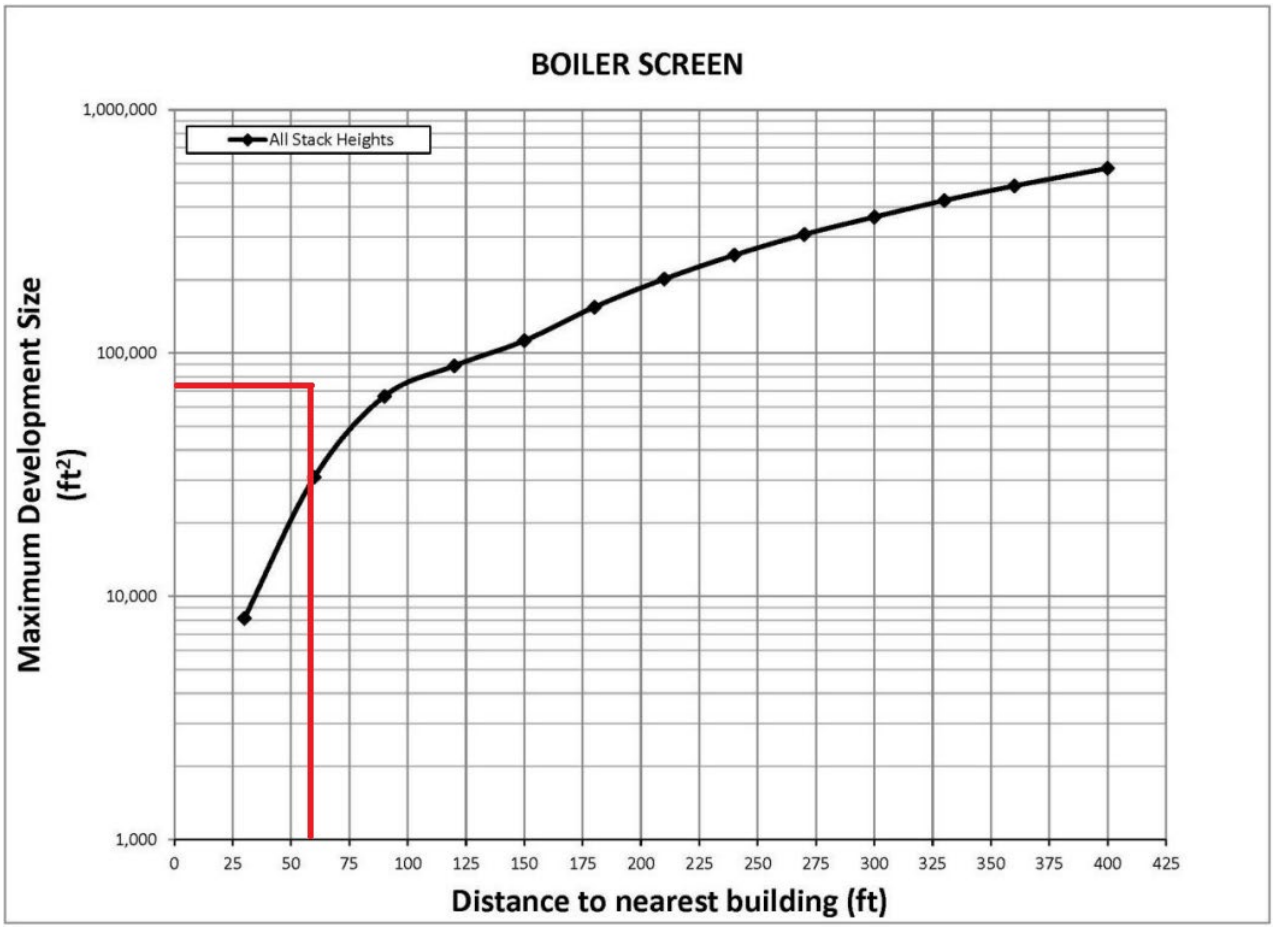
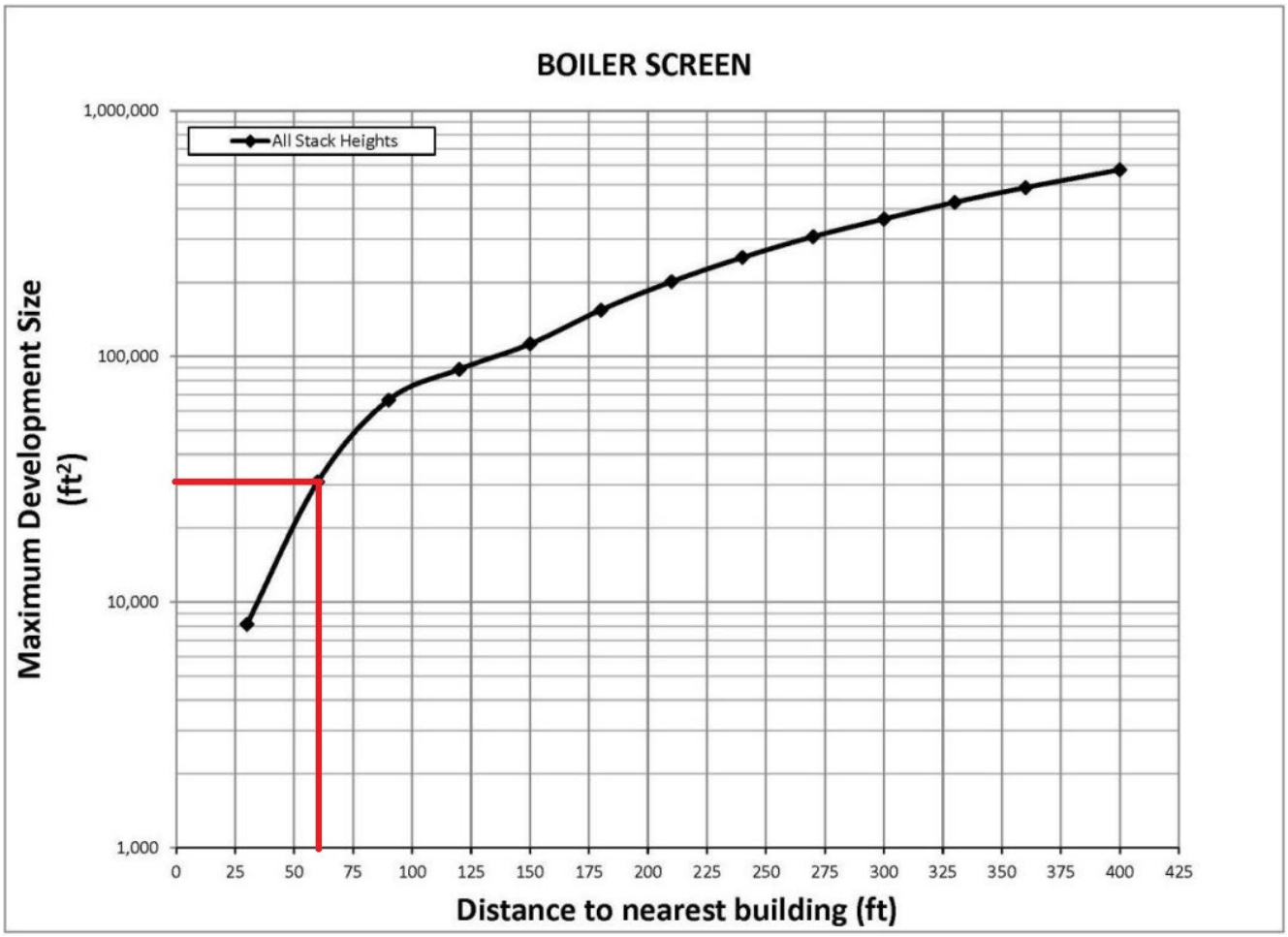


Figure 2.8-3: Projected Development Site 2 on Projected Development Site 1 – HVAC Screen



HVAC Detailed Analysis

A stationary source modeling was conducted to evaluate the project-on-project and project-on-existing potential for significant impact associated with the boilers stack emissions. Lakes Environmental MPI executable was used in the analysis. The MPI executable takes advantage of computers with multiple processors, reducing run-time significantly. Lakes Environmental has adjusted the US EPA AERMOD source code and recompiled the model to parallelize the processing of receptors. The latest MPI executable (used in the analysis) modified the EPA's AERMOD latest executable model version 21112. AERMOD model incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain. The model was run with the regulatory default option and for both with and without downwash effects options, where the Building Profile Input Program (BPIP) was run with the downwash effect enabled. All analyses were conducted using five consecutive years of meteorological data (2016-2020), obtained from the NYSDEC. Surface data used in the analysis is from LaGuardia Airport, upper air data is from Brookhaven station, New York. The meteorological data provided hour-by-hour wind speeds and directions, stability states, and

temperature inversion elevations over the 5-year period. Population in Kings County, obtained from the U.S. Census Bureau (July 2019), was specified to account for the effects of increased surface heating from an urban area on pollutant dispersion under stable atmospheric conditions.

Oil No. 2 was assumed to be the type of fuel used in Projected Development Site 2 HVAC system. The pollutants of concern of fuel Oil No. 2 fueled boilers are NO_2, $PM_{2.5}$, and SO_2. Natural gas would be the type of fuel used in the boiler(s) for Projected Development Site 1, and low-NOx burners would be utilized in the boiler(s). The pollutant of concern for natural gas fuel boilers is NO_2 and $PM_{2.5}$. The HVAC systems' energy capacities were calculated based on the buildings gsf and energy consumption rate of 60.3 thousand Btu per gsf[7], corresponding to residential use in the buildings. Emission factors were obtained from the EPA AP-42 manual for external combustion sources, except nitrogen oxides (NOx) emission rate emitted from natural gas fueled HVAC system equipped with low-NOx burner(s), which was calculated based on emission factor obtained from the New York City Department of City Planning (DCP). All fuel was assumed to be consumed during the 100-day (or 2,400 hour) heating season. **Table 2.8-2** shows the building's HVAC systems' energy capacities and pollutants emission rates.

Table 2.8-2: Projected Development Sites 1 and 2 HVAC Systems Emission Rates

Site ID	Development Floor Area (gsf)	Boiler's Energy Intensity (MMBtu); Fuel Used	Pollutant	Short-term Emission Rate (g/s)	Annual Emission Rate (g/s)
Projected Development Site 1	72,349	1.8; natural gas low-NOx	NO_2	8.34E-03	2.29E-03
			$PM_{2.5}$	1.71E-03	4.68E-04
Projected Development Site 2	31,196	0.8; fuel Oil No. 2	NO_2	1.24E-02	3.41E-03
			$PM_{2.5}$	1.33E-03	3.63E-04
			SO_2	1.33E-04	3.63E-05

The *CEQR Technical Manual* default stack's diameter and exhaust's exit velocity were specified for Projected Development Site 2 (as Projected Development Site 2 predicted boiler energy intensity is less than 1 million Btu). Projected Development Site 1 boiler stack's diameter was estimated based on values obtained from the New York City Department of Environmental Protection (DEP) "CA Permit" database for corresponding boiler sizes (i.e., rated heat input or million Btu per hour) , and its stack's exit velocity was calculated based on the fuel dry volume of combustion components per unit of heat content. The stacks' exit temperatures were assumed to be 426°K, which is appropriate for boilers, based on the DEP "CA Permit" database. The boiler stacks were initially placed 3 feet above the roofline and as close as possible to the receiving building. A stack(s) set back distance(s) was specified if an impact was predicted.

The Projected Development Sites were modeled as buildings that cover their entire lot area (the wall façade located on the outer lot lines). Projected Development Site 2 was modeled at the RWCDS height (115 feet).

[7] U.S. Energy Information Administration (EIA) Table US1: Total Energy Consumption, Expenditures, and Intensities, 2005 Part 1: Housing Unit Characteristics and Energy Usage Indicators.

Projected Development Site 1 was modeled at a height of 95 feet for the source building and at a height of 115 feet for the receiving building. Buildings in the surrounding area were accounted for in the downwash effect on plums dispersions (BPIP). Receptors on the receiving building were placed on all wall façade from the ground floor to the roof-top height in spaced intervals.

The U.S. Geological Service (USGS) National Elevation Dataset (NED) 1/3 arc-second resolution (GeoTIFF dataset), the terrain data set recommended by the EPA for use in the United States for regulatory purposes, was used to process buildings' base elevations. The base elevations of receptors and stacks were set to their buildings' base elevations. Roof heights of buildings in the area were obtained from the NYC Building Footprint database[8], and satellite imagery and the New York City Department of Building (DOB) database were consulted where no data existed.

The 1-hour NO_2 concentration was modeled with 8th highest concentration (the NAAQS design value) and a Tier 2 (ARM 2) approach, where the default minimum and maximum NO_2 to NOx concentrations was applied. Twenty-four-hour $PM_{2.5}$ concentration was modeled with 1st highest concentration, which is the *de minimis* design value. The model was run twice; with building wake effect enabled/disabled. The predicted concentration is the highest concentration of these. The NO_2 and SO_2 modeled concentrations were added to the background concentrations and the results were evaluated with the NAAQS. $PM_{2.5}$ modeled concentrations were evaluated with the *de minimis* for stationary source. The HVAC dispersions analysis results are shown in **Table 2.8-3**.

Table 2.8-3: HVAC Dispersion Analysis - Project-on-Project Results

Pollutant and Averaging Time	Modeled Concentration (µg/m^3) (2)	Background Concentration (µg/m^3)	Evaluated Concentration (µg/m^3)	Threshold Concentration (µg/m^3)	Threshold Standard
Project-on-Project: Proposed Development on Projected Development Site 2					
1-hour NO_2	77.54	99.83	177	188	NAAQS
Annual NO_2	0.87	23.5	24	100	NAAQS
24-hour $PM_{2.5}$	7.85	18.7	7.85	8.15	*de minimis*
Annual $PM_{2.5}$	0.17	7.6	0.17	0.3	*de minimis*
Project-on-Project: Projected Development Site 2 on Projected Development Site 1					
1-hour NO_2	73.99	99.83	174	188	NAAQS
Annual NO_2	0.90	23.5	24	100	NAAQS
24-hour $PM_{2.5}$	2.55	18.7	2.5	8.15	*de minimis*
Annual $PM_{2.5}$	0.09	7.6	0.09	0.3	*de minimis*
1-hour SO_2	0.9	15.1	16	196	NAAQS
Annual SO_2	0.01	0.9	1	80	NAAQS

[8] City of New York, nyc-geo-metadata (May 03, 2016); https://data.cityofnewyork.us/Housing-Development/Building-Footprints/nqwf-w8eh

As seen in **Table 2.8-3**, NO_2 and SO_2 concentrations are within the NAAQS and $PM_{2.5}$ concentrations do exceed the *de minimis*. Therefore, no impact is predicted to Projected Development Site 1 or 2 from the Proposed Project HVAC emissions. The concentrations shown in **Table 2.8-3** were predicted with certain restrictions to ensure that no significant adverse air quality impact(s) would occur. The restrictions placed on the Proposed Actions are specified in the Air Quality E-Designations shown below.

(E) Designation (E-695)

Block 1735, Lot 39 (Projected Development Site 1): Any new residential or commercial development on the above-referenced property must exclusively use natural gas as the type of fuel for heating, ventilating, air conditioning (HVAC) system(s) and must be fitted with low NOx (30 ppm) burners, and ensure that the HVAC stack is located at the building's highest level and at least 98 feet above grade to avoid any potential significant adverse air quality impacts.

Block 1735, Lots 33, 34, and 35 (Projected Development Site 2): Any new residential or commercial development on the above - referenced property must ensure that the heating, ventilating, air conditioning (HVAC), and hot water system(s), stack is located at the building's highest level and at least 118 feet above grade, and that the stack is located at least 30 feet from the western lot line of Lot 35 facing Spencer Street to avoid any potential significant adverse air quality impacts.

Industrial Sources

Identifying Potential Emission Sources

A search of potential industrial sites was performed to identify any NYC DEP, and USEPA1 Air Quality Permits issued within 400 feet of the Rezoning Area. This Study Area and uses, preliminarily identified as manufacturing or industrial based on NYCDCP MAPPLUTO database, are identified in **Figure 2.8-4**. This search was performed to determine if hazardous air toxics would have the potential to impact the proposed development.

Twenty-eight (28) sites were originally identified as potentially manufacturing or industrial in nature as identified in **Figure 2.8-4** as sites 1 through 28. All sites within the 400-foot radius were additionally screened using the DEP CATS database to find any registered industrial permits. **Table 2.8-4** shows that one additional site (Site 29), not listed as industrial use, was identified as having active industrial emissions permits. The full list twenty-nine (29) properties can be seen in **Table 2.8-4** and their locations are provided in **Figure 2.8-4**.

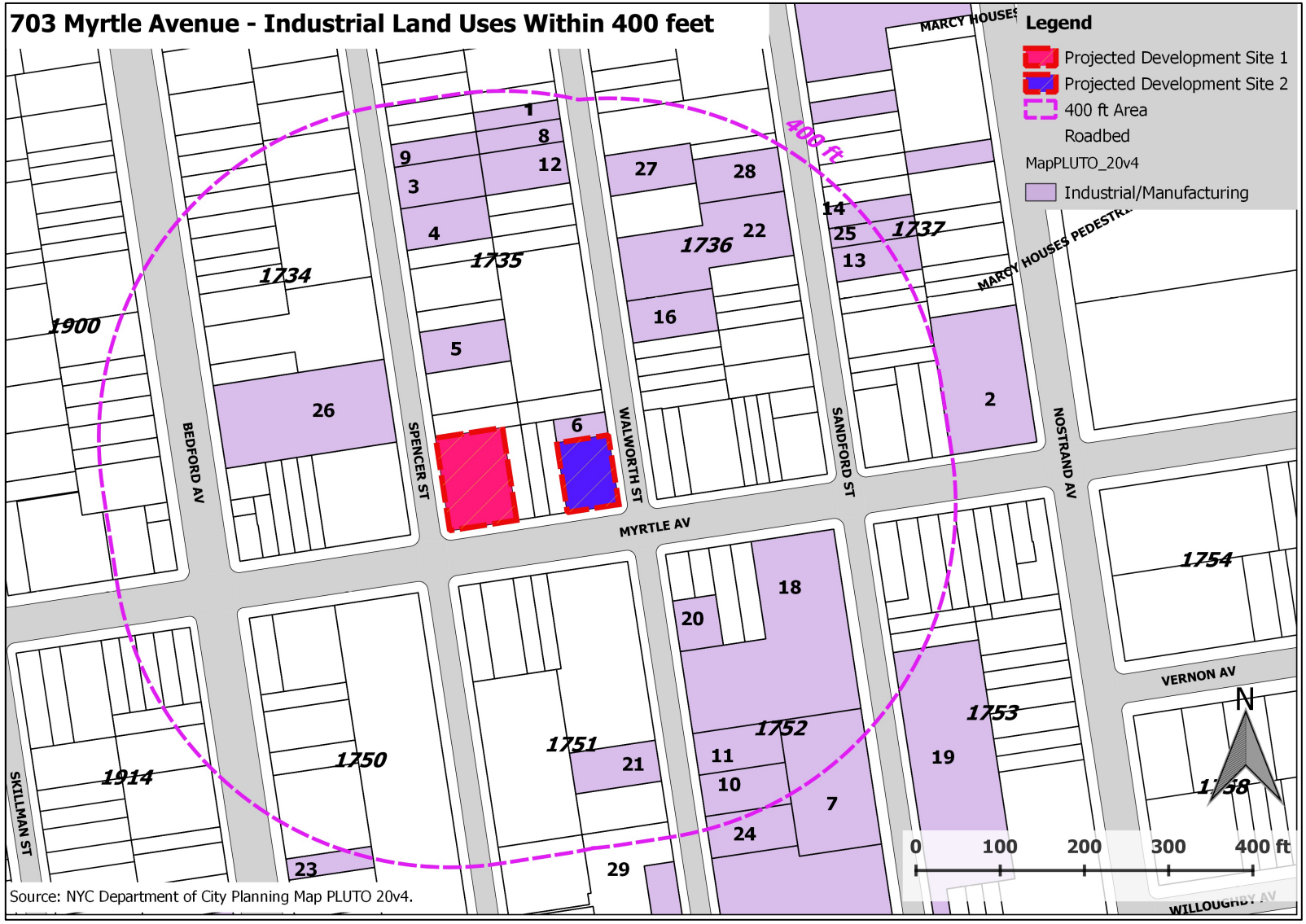
As shown in **Table 2.8-5**, of the twenty-nine (29) sites identified, only three (3) have active industrial permits. All permits for these sites were requested and received from the DEP via their Air Permits email and the CEQR – Air Permit Request form. However, the DEP permits listed at Site 7 are located in the facility on Block 1752, Lot 1, which is not within 400 feet of the Proposed Project (see discussion on Site below).

Therefore, Site 7 emission sources were screened out. In addition, Site 26 was identified as a potential toxic air emission source from off-set printing processing.

Table 2.8-4: Industrial Sites within 400 feet of the Rezoning Area

Site ID	Block	Lot	Address	Current Use	Industrial Permit Search Results
1	1735	17	94 Walworth St	Warehouse	No Record
2	1737	35	751 Myrtle Ave	Supplier and distributor of mosaic, ceramic and porcelain tiles	No Record
3	1735	53	93 Spencer St	Warehouse	No Record
4	1735	151	97 Spencer St	Warehouse	No Record
5	1735	45	111 Spencer St	Warehouse	No Record
6	1735	32	124 Walworth St	Contractor's warehouse and office	No Record
7	1752	35	156 Sanford St	Van Blarcom Closures, Inc.	PB011913, PR012717
8	1735	18	96 Walworth St	Warehouse	No Record
9	1735	55	89 Spencer St	Warehouse	No Record
10	1752	9	157 Walworth St	Van Blarcom Closures, Inc.	No Record
11	1752	11	153 Walworth St	Van Blarcom Closures, Inc.	No Record
12	1735	19	98 Walworth St	Warehouse	No Record
13	1737	52	109 Sanford St	Warehouse	No Record
14	1737	55	105 Sanford St	Warehousing and distribution company	No Record
16	1736	50	109 Walworth St	Electro Polishing	PA031197, PA166773, PA166873
18	1752	13	145 Walworth St	Van Blarcom Closures, Inc.	No Record
19	1753	4	151 Sanford St	Van Blarcom Closures, Inc.	No Record
20	1752	18	139 Walworth St	Warehouse	No Record
21	1751	35	156 Walworth St	Warehouse	No Record
22	1736	23	102 Sanford St	Warehouse	No Record
23	1750	10	881 Bedford Ave	Warehouse	No Record
24	1752	7	161 Walworth St	Van Blarcom Closures, Inc.	No Record
25	1737	54	107 Sanford St	Electrical Contractor	No Record
26	1734	33	116 Spencer St	Publishing and printing facility	No Record
27	1736	57	95 Walworth St	Vacant, undergoing renovation	No Record
28	1736	21	98 Sanford St	Vacant, for sale	No Record
29	1751	41	168 Walworth St	Auto Body Repair	PB013906, PB017407

Figure 2.8-4: Potential Industrial and Manufacturing Uses within 400 Foot Study Area



Van Blarcom Closures, Inc. - Sites 7, 10, 11, 18, 19, and 24

The Van Blarcom Closures, Inc. owns and operates on Block 1752 / Lots 1, 7, 9, 11, 13, 22, and 35 and Block 1753 / Lot 4. DEP CATS database indicates that this site is currently under two Industrial Permits for industrial combustion engine generators (PB011913 and PR012717) and a few canceled permits for industrial processing. The Van Blarcom Closures, Inc. is a manufacturer of child-resistant closures and metal can fitments. The company is currently going through a rezoning process to change from manufacturing to residential zoning districts. This action is pursuant to the construction of six residential buildings totaling 686,078 gsf.

During the field survey, an attempt was made to identify the location of the generators at this facility. No indications of the presence of generators were observed in the part of the facility which lies within the study area. Indications of the location of the generators were observed in the building on Lot 1 of Block 1752.

One indication, identified as the generator associated with the DEP permit PR012717, includes two large grates on the side of the building, and two stacks protruding from the roof of the building immediately above the grates. Given that the generators are internal combustion engines, they require both exhaust stacks, and air flow for both combustion and cooling purposes, and you would expect to find both stacks and air grates in the vicinity of the generators. These structures were observed on the northwest corner of the building on Lot 1, approximately 130 feet north of the intersection of Willoughby Avenue and Walworth Street. The building on Block 1752, Lot 1 is outside the 400-foot study area, and therefore, no analysis is required. **Figure 2.8-5** shows the engine generator location identified in the fieldwork observation (photos 2450 in the backup files).

Figure 2.8-5: Generator Located at the Northwest Corner Of The Building On Block 1752, Lot 1



The DEP permit PB011913 is for 12 identical generators. 12 stacks were observed at the southeast corner of the building located at Block 1752, Lot 1, and the intersection of Willoughby Avenue and Sandford Street. The building on Block 1752, Lot 1 is outside the 400-foot study area, and therefore, no analysis is required. **Figure 2.8-6** shows the 12 stacks (photos 2444 in the backup files).

Figure 2.8-6: Generator Located at the Southeast Corner Of The Building On Block 1752, Lot 1



Figure 2.8-7 shows a photo of Site 7.

Figure 2.8-7: Site 7 - 156 Sanford Street



751 Myrtle Avenue – Site 2

During the field survey performed on 2/23/2022, the property at 751 Myrtle Avenue was occupied by Price Stone, Global Stone and tile providers. Price stone is a supplier and distributor of mosaic, ceramic and porcelain tiles. The building contains office, showroom, and warehouse space. There are no stone or tile fabrication operations performed at the site, and there are not any stacks, odors or emissions from the property. Backup files photo numbers 2459 and 2461 show the facility.

124 Walworth Street – Site 6

The building at 124 Walworth Street is occupied by a contractor's warehouse and office. A Google search for 124, Walworth Street, Brooklyn, New York identifies Dembar Built, Inc. as an occupant at this address. According to the Google description for Dembar Built, Inc., the Bulldog Interiors provides comprehensive construction services for the greater New York City area. According to the Dembar Built, Inc. website (dembarbuilt.com), the owner and operator of this business is Seth Dembar.

At the time of the field survey, the property at 124 Walworth Street was occupied by a 2-story warehouse/office building which was locked at the time. No signs, business names or other indications identifying the occupant were present on the front of the building. However, there was a pickup truck parked in front of the building which reads "Bulldog Interiors." An interview was conducted with a neighbor at 126 Walworth Street who stated that the building is occupied by a contractor and that he has never witnessed any no manufacturing operations, odors or emissions from this site. See backup photos 2456 & 2457.

105 Sanford Street – Site 14

The building at 105 Sanford Street is occupied by a tile warehousing and distribution company. At the time of the site visit, 105 Sanford Street contained a 1-story warehouse building. No signs, business names or other indications identifying the occupant were present on the front of the building. Pallets of tiles were present in the side yard. Two stacks are visible on the roof; however, these are either for heating systems or are inactive. No emissions or odors were observed at this location. An interview was conducted with a neighbor at 108 Sanford Street who stated that the building is occupied by a tile warehousing and distribution company, and that there are not any manufacturing operations, odors, or emissions from the site. Backup files photo numbers 2463, 2465, and 2466 show the facility.

Site 16: 109 Walworth Street (Block 1736/Lot 50)

109 Walworth Street, located approximately 200 feet to the northeast of the Rezoning Area, is occupied by Control Electropolishing Corp. DEP database indicates that this site is currently under three Industrial Permits for cleaning, pickling, and electropolishing metals (PA031197, PA166773, and PA166873). A screening analysis was conducted with the provided information for all chemicals of concern covered under the permits.

Figure 2.8-8: Site 16 – 109 Walworth Street



107 Sanford Street – Site 25

The building at 105 Sanford Street is occupied by Dunrite Electrical Corp. an electrical contractor. No stacks, odors or emissions were observed from the building. An interview was conducted with a neighbor at 108 Sanford Street who stated that the building is occupied by an electrical contractor, and that there are not any manufacturing operations, odors, or emissions from the site. Backup file photo number 2462 shows the facility.

116 Spencer Street – Site 26

The building at 116 Spencer Street (A.K.A. 845 Bedford Avenue) is occupied by Ateres Publishing, a publishing and printing business. There were two stacks visible protruding from the roof on the east side of the building. However, no emissions or odors were observed from these stacks. Two printing presses were observed inside the building during the field survey. The analysis for this facility is presented below. Backup file photo number 2479 shows the facility viewed from Spencer Street.

95 Walworth Street – Site 27

The building at 95 Walworth Street is a 1-story industrial/warehouse building with no signs, business names or other indications of the occupant on the front of the building. At the time of the site visit, a contractor working in the building was interviewed and stated that the building was vacant and being gut renovated for a new use. There are not any manufacturing operations in the building. No stacks, odors or emissions were observed at this location during the field survey. Backup file photo numbers 2473 and 2475 show the facility.

98 Sanford Street – Site 28

The building at 98 Sanford Street is a 1-story industrial/warehouse building. At the time of the site visit, this building was vacant, locked and for sale. No signs, business names or other indications identifying the occupant were present on the front of the building. An interview was conducted with a neighbor at 108 Sanford Street who stated that the building is empty, and that there are not any manufacturing operations, odors, or emissions from the site. Backup file photo number 2470 shows the facility.

Site 29: 168 Walworth Street (Block 1751/ Lot 41)

168 Walworth Street is located approximately 385 feet to the south of the Rezoning Area. DEP CATS database indicates that this site is currently under two industrial permits for paint spray booths for automobiles (PB013906 and PB017407). The screening analysis was conducted with the provided information for all chemicals of concern covered under the permits.

Figure 2.8-9: Site 29



Control Electropolishing Corp. Air Toxics Dispersion Analysis

Control Electropolishing Corp., located at 109 Walworth Avenue (Block 1736, Lot 50), has 3 active operational certificates from the DEP. PA031197 certificate is for cleaning, pickling and electropolishing of metal parts. The contaminants listed in the certificate are: Sodium Hydroxide, Nitric Acid, Hydrochloric Acid, and water vapors. PA166773 certificate is for a process which includes electro-polishing, pickling, and cleaning of metal parts. The contaminants listed in the certificate are: Phosphoric acid, Sulfuric Acid, and water vapors, or alkaline mist. For analysis purposes, all pollutants were assumed to be emitted. The alkaline mist was assumed to be Sodium Hydroxide, based on DEP permit PA0166873. PA166873 certificate is for process which includes electro-polishing, pickling, and cleaning of metal parts. The contaminant listed in the certificate is: Alkaline Mist with a New York identification number NY-104-00-0. This identification number is a general number used to identify groups of contaminants. Another page in the certificate identifies the alkaline mist as

Sodium Hydroxide. The stacks locations and other parameters are provided in the DEP permits. **Table 2.8-5** shows the contaminants, their Chemical Abstract Service (CAS) numbers, and emission rates.

Table 2.8-5: Control Electropolishing Emission Rates

Certificate ID	Contaminant	CAS Number	Emission Rate (lb/hr)	Emission Rate (lb/yr)
PA031197	Sodium Hydroxide	1310-73-2	0.001	1.6
	Nitric Acid	7697-37-2	0.001	1.6
	Hydrochloric Acid	7647-01-0	0.001	1.6
	Water vapor	7732-18-5	0.001	1.6
PA166773	Phosphoric Acid	7664-38-2	0.112	80
	Sulfuric Acid	7664-93-9	0.028	45
	Sodium Hydroxide (1)	1310-73-2	0.125	200 (1)
PA166873	Sodium Hydroxide (2)	1310-73-2	0.125	200

Note:
1. Alkaline mist was interpreted as Sodium Hydroxide; annual emission rate corresponds with 1,600 hour per year activity rate specified in the DEP permit.
2. Alkaline mist as Sodium Hydroxide, based on DEP certificate.

The *CEQR Technical Manual* Industrial Source Screen methodology was used to predict maximum short-term(s) and annual average concentrations. This methodology can be used to predict pollutant concentration emitted from a single source at various distances (from 30 to 400 feet). The locations of the emission points, specified in the DEP permits, were used to approximate the distance between each emission point and the nearest Development Site. **Table 2.8-6** shows the noncriteria pollutants dispersion analysis results, using the *CEQR Technical Manual* Industrial Source procedure, and the SGC/AGC standards.

Table 2.8-6: Electro Polishing Corp. DEP Permits PA031197, PA166773, PA166873 Dispersion Analysis Results

Pollutant	CAS No.	Short-Term		Annual	
		Conc. ($\mu g/m^3$)	SGC ($\mu g/m^3$)	Conc. ($\mu g/m^3$)	AGC ($\mu g/m^3$)
Sodium Hydroxide	1310-73-2	0.6	200.0	0.01	---
Nitiric Acid	7697-37-2	0.6	86.0	0.01	12.3
Hydrochloric Acid (1)	7647-01-0	0.6	2100.0	0.01	20.0
Water Vapor	7732-18-5	0.6	---	0.01	---
Phosphoric Acid	7664-38-2	49.5	300.0	0.21	10.0
Sulfuric Acid	7664-93-9	12.4	120.0	0.12	1.0
Alkaline Mist as Sodium Hydroxide	1310-73-2	55.3	200.0	0.52	---
Alkaline Mist NY104-00-0 as Sodium Hydroxide	1310-73-2	79.4	200.0	0.73	---

Note:
1. Hydrochloric Acid is a Hazardous Air Pollutants (HAP).

As seen in **Table 2.8-6**, pollutants concentrations are within the SGC/AGC design values.

Kings County Auto Body Air Toxics Dispersion Analysis

Kings County Auto Body, located at 168 Walworth Avenue (Block 1751, Lot 41), has 2 active operational certificates from the DEP (PB013906 and PB017407). PB017407 certificate is for a spray booth equipment where cars are prepared for painting. The contaminant listed in the permit is dust NY075-00-0, which is particulates. As a conservative measure, all PM was assumed to be $PM_{2.5}$. Based on the site plans included in the DEP permit, the stack is located approximately 20 feet from the lot line facing the Proposed Project.

PB013906 certificate is for spray booth equipment where cars are painted. Based on the site plans included in the DEP permit, the stack is located approximately 20 feet from the lot line facing the Proposed Project. Contaminants listed in permit PB013906 are solids NY Identification number NY079-00-0 and solvents NY998-00-0. NY079-00-0 is particulates PM, PM_{10}, and $PM_{2.5}$ combined. As a conservative measure, all PM was assumed to be $PM_{2.5}$. The mixture of different compounds, identified collectively as VOC NY998-00-0, have no guideline values in the NYSDEC DAR-1 database. The mixture comprises of compounds of varying toxicities. A representative composition of the VOC by percent weight was obtained from the DCP for a similar analysis of an auto-body facility where the chemical composition of the coating compound is not known. The ingredients that make up the representative paint, along with their Chemical Abstract Service (CAS) number, by percent weight, and the hourly and annual emission rates are presented in **Table 2.8-7**.

Table 2.8-7: Kings County Auto Body Facility (DEP Permit PB013906 and PB017407) Contaminants Short-term and Annual Emission Rates

Contaminant	CAS No.	Percent Weight	Short-Term	Annual
			lb/hr	lb/yr
Contaminants Associated With DEP Permit PB013906				
Acetone	67-64-1	43%	1.3330	1999.5
Aromatic Petroleum Distillate	64742-94-5	5%	0.1550	232.5
Naphtha Light Aliphatic	64742-89-8	10%	0.3100	465.0
Butane	106-97-8	11%	0.3410	511.5
Ethanol	64-17-5	2%	0.0620	93.0
Ethyl 3-Ethoxypropionate	763-69-9	9%	0.2790	418.5
Ethylbenzene	100-41-4	5%	0.1550	232.5
Methyl Ethyl Ketone	78-93-3	8%	0.2480	372.0
N-Butyl Acetate	123-86-4	5%	0.1550	232.5
Propane	74-98-6	11%	0.3410	511.5
Stoddard Solvent	8052-41-3	10%	0.3100	465.0
Toluene	108-88-3	10%	0.3100	465.0
Xylene	1330-20-7	10%	0.3100	465.0
PM (solids)	NY079-00-0		0.0650	97.6
Contaminants Associated With DEP Permit PB017407				
PM (dust)	NY075-00-0		0.0400	80.0

The *CEQR Technical Manual* Industrial Source Screen methodology was used to predict maximum short-term(s) and annual average concentrations. A distance of 400 feet was used in the screening analysis as the stack(s) is located approximately 20 feet from the lot line facing the Proposed Project. **Table 2.8-8** shows the noncriteria pollutants dispersion analysis results, using the *CEQR Technical Manual* Industrial Source procedure, and the SGC/AGC standards.

Table 2.8-8: Kings County Auto Body DEP Permits PB013906 and PB017407 Noncriteria Pollutants Dispersion Analysis Results

Pollutant	CAS No.	1-Hour		Annual	
		Conc.	SGC	Conc.	AGC
		(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)
Acetone	67-64-1	170.6	180000.0	1.35	30000.0
Aromatic Petroleum Distillate	64742-94-5	19.8	---	0.16	100.0
Naphtha Light Aliphatic	64742-89-8	39.7	---	0.31	3200.0
Butane	106-97-8	43.6	---	0.35	---
Ethanol	64-17-5	7.9	---	0.06	45000.0
Ethyl 3-Ethoxypropionate (1)	763-69-9	35.7	140.0	0.28	64.0
Ethylbenzene (1)	100-41-4	19.8	---	0.16	1000.0
Methyl Ethyl Ketone	78-93-3	31.7	13000.0	0.25	5000.0
N-Butyl Acetate	123-86-4	19.8	71300.0	0.16	565.0
Propane	74-98-6	43.6	---	0.35	---
Stoddard Solvent	8052-41-3	39.7	---	0.31	900.0
Toluene (1)	108-88-3	39.7	37000.0	0.31	5000.0
Xylene (1)	1330-20-7	39.7	22000.0	0.31	100.0

Note:
1. Ethyl 3-Ethoxypropionate, Ethylbenzene, Toluene, and Xylene are Hazardous Air Pollutants (HAP).

As seen in **Table 2.8-8**, pollutant concentrations are within the SGC/AGC design values.

For the $PM_{2.5}$ analysis with respect to the *de minimis*, the average 24-hour emission was derived from the facility hours of operation during workdays. **Table 2.8-9** shows the criteria pollutant dispersion analysis results, using the *CEQR Technical Manual* Industrial Source procedure, and the applicable *de minimis*.

Table 2.8-9: Particulate Dispersion Analysis Results For DEP Permits PB013906 and PB017407

Criteria Pollutant	Threshold Standard	Modeled Concentration (µg/m^3)	Threshold Standard Conc.	Conc. Unit
$PM_{2.5}$ 24-Hour	*de minimis*	1.36	8.15	µg/m^3
$PM_{2.5}$ Annual	*de minimis*	0.12	0.3	µg/m^3

As seen in **Table 2.8-9**, the $PM_{2.5}$ predicted concentrations do not exceed the *de minimis*.

Ateres Publishing Air Toxics Dispersion Analysis

The Ateres Publishing was identified as an offset printing service. The facility is located on the east side of Spencer Street and approximately 50 feet from Projected Development Site 1. The facility does not have a DEP or NYSDEC certificate to operate. Therefore, a representative short-term (maximum 1-hour) emission profile was obtained from the DEP permit application PA038699 for a large offset printing facility. **Table 2.8-10** shows the Ateres Publishing emission profile.

Table 2.8-10: Ateres Publishing Facility - Emission Profile

Pollutant Name	CAS No.	Emission	
		(lb/hr)	(lb/yr) (1)
Butoxyethanol, 2	111-76-2	0.405	1620
Acetic Acid	64-19-7	0.026	104
Naphtha (Petroleum), Heavy Straight-Run	64741-41-9	0.928	3710
Poly(Oxy-Ethanediyl)(Nonylphenyl) Hydroxy	9016-45-9	0.115	460
Methoxypropylacetate	108-65-6	0.012	4.69
Naphtha Hydrotreated Heavy	64742-48-9	0.119	474
Naphtha Light Aromatic	64742-95-6	0.909	3630
Isopropyl Alcohol	67-63-0	0.249	994
Naphtha Medium Aliphatic	64742-88-7	0.052	206
Naphtha Heavy Aromatic	64742-94-5	0.014	5.62
9-Octadecenamide,N,N-Bis(2-Hydroxgethyl)-,(Z)-	93-83-4	0.014	5.62
Triethanolamine Benzene	1886-81-3	0.005	1.87
Acetone	67-64-1	0.486	1940
Aliphatic Petrol Distill	64742-89-8	0.398	1590
Dichloromethane (1)	75-09-2	0.087	346
Xylene, M, O & P Mixture (1)	1330-20-7	0.019	7.41

Note:
1. Dichloromethane and Xylene are HAPs.

AERMOD was used to predict pollutant concentrations. The AERMOD model is discussed in the HVAC analysis. The *CEQR Technical Manual* default stack parameters were used in the analysis. The stack was situated 3 feet above the roof of the facility and 10 feet from the edge of the roof closest to the Proposed Project. Receptors at the Projected Development Sites were placed from ground floor to rooftop height in spaced intervals. The dispersion analysis results are shown in **Table 2.8-11**. As seen in **Table 2.8-11**, the pollutant concentrations are within the SGC/AGC design values.

Table 2.8-11: Noncriteria Pollutants – Ateres Publishing Dispersion Analysis Result

Contaminant name	CAS No.	1-Hour	SGC	Annual	AGC
		(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)
Butoxyethanol, 2	111-76-2	902.8	4700.0	16.43	1600.0
Acetic Acid	64-19-7	58.0	3700.0	1.05	60.0
Naphtha (Petroleum), Heavy Straight-Run	64741-41-9	2068.7	---	37.62	---
Poly(Oxy-Ethanediyl)(Nonylphenyl) Hydroxy	9016-45-9	256.4	---	4.66	---
Methoxypropylacetate	108-65-6	26.8	36850.0	0.05	2000.0
Naphtha Hydrotreated Heavy	64742-48-9	265.3	---	4.81	900.0
Naphtha Light Aromatic	64742-95-6	2026.3	---	36.81	100.0
Isopropyl Alcohol	67-63-0	555.1	98000.0	10.08	7000.0
Naphtha Medium Aliphatic	64742-88-7	115.9	---	2.09	3200.0
Naphtha Heavy Aromatic	64742-94-5	31.2	---	0.06	100.0
9-Octadecenamide,N,N-Bis(2-Hydroxgethyl)-,(Z)-	93-83-4	31.2	---	0.06	---
Triethanolamine Benzene	1886-81-3	11.1	---	0.02	---
Acetone	67-64-1	1083.4	180000.0	19.67	30000.0
Aliphatic Petrol Distill	64742-89-8	887.2	---	16.12	3200.0
Dichloromethane	75-09-2	193.9	14000.0	3.51	46.0
Xylene, M, O & P Mixture	1330-20-7	42.4	22000.0	0.08	100.0

Air Toxics Cumulative Dispersion Analysis

Table 2.8-12 shows the cumulative dispersion analysis result for each pollutant. As seen in **Table 2.8-12**, all the pollutants concentrations are within the SGC and AGC design values. In addition to evaluating each noncriteria pollutant with the SGC/AGC guidelines, inhalation risk for carcinogens and hazardous quotient for noncarcinogen pollutants were evaluated. The inhalation risk for the HAPs is 0.09 (less than 1), and the hazardous quotient is 0.56 (less than 1) for the non-carcinogenic pollutants. Therefore, no adverse air quality impact is predicted from industrial sources in the study area.

Table 2.8-12: Noncriteria Pollutants – Cumulative Dispersion Analysis Result

Contaminant name	CAS No.	1-Hour	SGC	Annual	AGC
		(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
Ethanol	64-17-5	7.9	---	0.1	45000.0
Acetic Acid	64-19-7	58.0	3700.0	1.1	60.0
Isopropyl Alcohol	67-63-0	555.1	98000.0	10.1	7000.0
Acetone	67-64-1	1254.0	180000.0	21.0	30000.0
Propane	74-98-6	43.6	---	0.3	---
Dichloromethane (1)	75-09-2	193.9	14000.0	3.5	46.0
Methyl Ethyl Ketone	78-93-3	31.7	13000.0	0.3	5000.0
9-Octadecenamide,N,N-Bis(2-Hydroxgethyl)-,(Z)-	93-83-4	31.2	---	0.1	---
Ethylbenzene (1)	100-41-4	19.8	---	0.2	1000.0
Butane	106-97-8	43.6	---	0.3	---
Methoxypropylacetate	108-65-6	26.8	36850.0	0.05	2000.0
Toluene (1)	108-88-3	39.7	37000.0	0.3	5000.0
Butoxyethanol, 2	111-76-2	902.8	4700.0	16.4	1600.0
N-Butyl Acetate	123-86-4	19.8	71300.0	0.2	565.0
Ethyl 3-Ethoxypropionate (1)	763-69-9	35.7	140.0	0.3	64.0
Sodium Hydroxide	1310-73-2	135.3	200.0	1.3	---
Xylene (1)	1330-20-7	82.0	22000.0	0.4	100.0
Triethanolamine Benzene	1886-81-3	11.1	---	0.02	---
Hydrochloric Acid (1)	7647-01-0	0.6	2100.0	0.01	20.0
Phosphoric Acid	7664-38-2	49.5	300.0	0.2	10.0
Sulfuric Acid	7664-93-9	12.4	120.0	0.1	1.0
Nitiric Acid	7697-37-2	0.6	86.0	0.01	12.3
Water Vapor	7732-18-5	0.6	---	0.01	---
Stoddard Solvent	8052-41-3	39.7	---	0.3	900.0
Poly(Oxy-Ethanediyl)(Nonylphenyl) Hydroxy	9016-45-9	256.4	---	4.7	---
Naphtha (Petroleum), Heavy Straight-Run	64741-41-9	2068.7	---	37.6	---
Naphtha Hydrotreated Heavy	64742-48-9	265.3	---	4.8	900.0
Naphtha Medium Aliphatic	64742-88-7	115.9	---	2.1	3200.0
Aliphatic Petrol Distill	64742-89-8	926.9	---	16.4	3200.0
Naphtha Heavy Aromatic	64742-94-5	51.0	---	0.2	100.0
Naphtha Light Aromatic	64742-95-6	2026.3	---	36.8	100.0

Note:
1. Hazardous Air Pollutants (HAP).

Major and Large Source

Per the *2021 CEQR Technical Manual*, projects that would introduce new uses near major sources, large sources, or odor-producing facilities may result in potentially significant adverse air quality impacts. The study area considers major sources, large sources, and odor-producing facilities within 1,000 feet of the proposed project. Major emission sources are identified as those sources located at Title V facilities; large emission sources are identified as sources located at facilities that require an Air State Facility permit. Solid waste or medical waste incinerators, asphalt and concrete plants, power generating plants, large boilers of large public facilities for example, and large industrial facilities are typical types of sources requiring these permits. Odor-producing facilities are operations that have the potential to cause discomfort, such as: solid waste management facilities, water pollution control plants (i.e., sewage treatment plants), and incinerators.

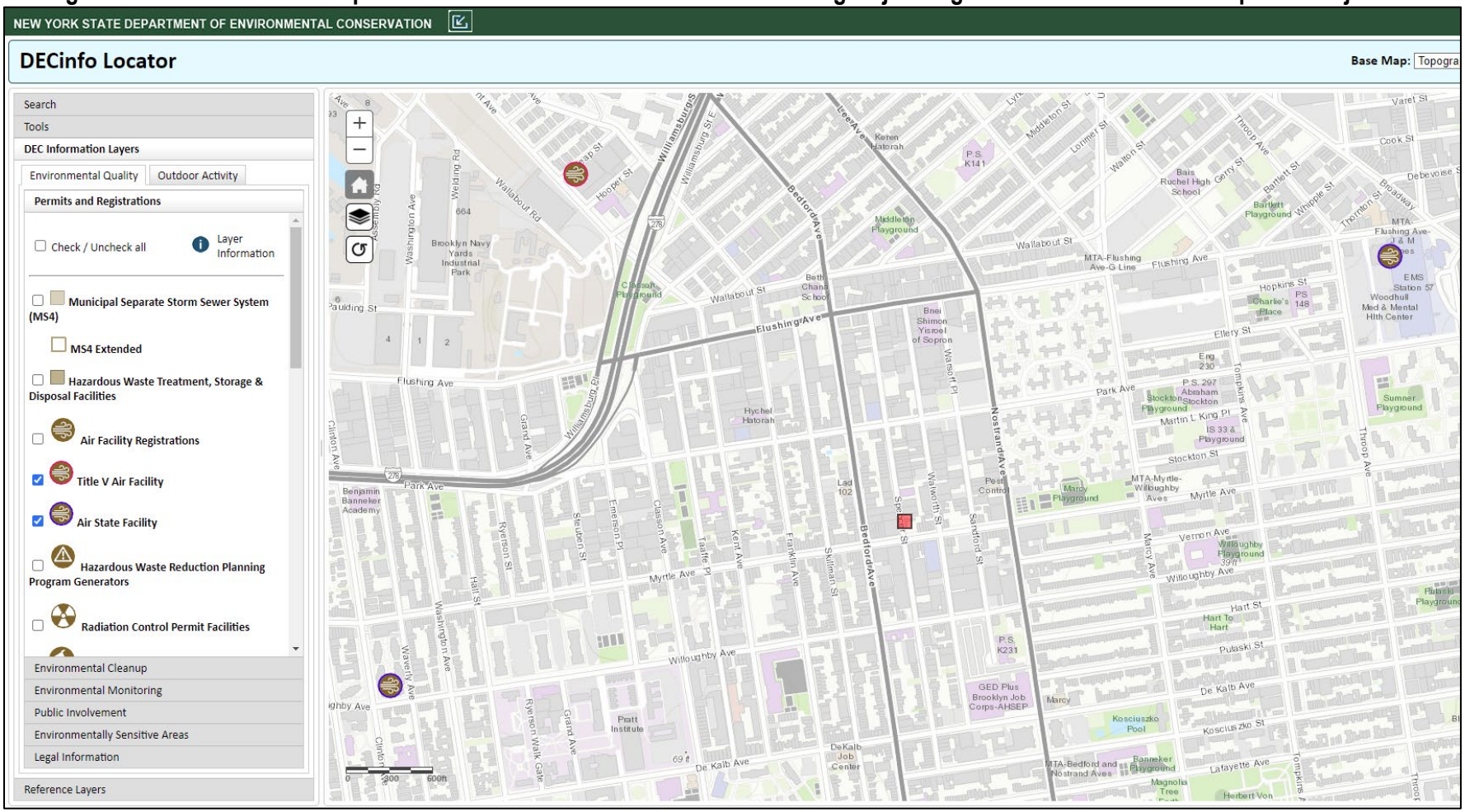
The NYSDEC online map application database[9] was reviewed to identify Title V or Air State facilities in the study area. As seen in **Figure 2.8-10**, no major/large source was identified in the database. As such, no analysis was warranted.

Conclusion

Restrictions on Projected Development Site 1 and 2 HVAC systems are detailed in the Air Quality E-Designation (E-695) listed above. With the Air Quality E-Designation, the Proposed Actions would not result in any potentially significantly adverse stationary or mobile source air quality impacts, and further assessment is not warranted.

[9] NYSDEC, DECinfo Locator. <https://gisservices.dec.ny.gov/gis/dil/> March 8, 2022.

Figure 2.8-10: Screen Shot Capture of the NYSDEC DEC info Locator Showing Major/Large Sources Close to the Proposed Project



2.9 Noise

Introduction

The Proposed Actions would create noise-sensitive residential development. Therefore, an assessment of the potential for adverse effects on project occupants from ambient noise is warranted. The projected development would not create a significant stationary noise generator. Additionally, project-generated traffic would not double vehicular traffic on nearby roadways, and therefore would not result in a perceptible increase in vehicular noise. Therefore, this noise assessment is limited to an assessment of ambient noise that could adversely affect occupants of the development. The predominant noise source in the Rezoning Area is vehicular traffic on surrounding streets.

Framework of Noise Analysis

Noise is defined as any unwanted sound, and sound is defined as any pressure variation that the human ear can detect. Humans can detect a large range of sound pressures, from 20 to 20 million micropascals, but only those air pressure variations occurring within a particular set of frequencies are experienced as sound. Air pressure changes that occur between 20 and 20,000 times a second, stated as units of Hertz (Hz), are registered as sound.

Because the human ear can detect such a wide range of sound pressures, sound pressure is converted to sound pressure level (SPL), which is measured in units called decibels (dB). The decibel is a relative measure of the sound pressure with respect to a standardized reference quantity. Because the dB scale is logarithmic, a relative increase of 10 dB represents acoustic energy that is 10 times higher. However, humans do not perceive a 10-dB increase as 10 times louder. Instead, they perceive it as twice as loud.

Sound is often measured and described in terms of its overall energy, taking all frequencies into account. However, the human hearing process is not the same at all frequencies. Humans are less sensitive to low frequencies (less than 250 Hz) than mid-frequencies (500 Hz to 1,000 Hz) and are most sensitive to frequencies in the 1,000- to 5,000-Hz range. Therefore, noise measurements are often adjusted, or weighted, as a function of frequency to account for human perception and sensitivities. The most common frequency weightings used are the A- and C-weightings. These weight scales were developed to allow sound level meters, which use filter networks to approximate the characteristic of the human hearing mechanism, to simulate the frequency sensitivity of human hearing. The A-weighting is the most commonly used for environmental measurements, and sound levels measured using this weighting are denoted as dBA. The letter “A” indicates that the sound has been filtered to reduce the strength of very low and very high-frequency sounds, much as the human ear does. C-weighting gives nearly equal emphasis to sounds of most frequencies. Mid-range frequencies approximate the actual (unweighted) sound level, while the very low and very high-frequency bands are significantly affected by C-weighting. Table 2.9-1 below notes the decibel levels of common noises.

Table 2.9-1: Noise Levels of Common Sources

Sound Source	SPL (dB(A))
Air Raid Siren at 50 feet	120
Maximum Levels at Rock Concerts (Rear Seats)	110
On Platform by Passing Subway Train	100
On Sidewalk by Passing Heavy Truck or Bus	90
On Sidewalk by Typical Highway	80
On Sidewalk by Passing Automobiles with Mufflers	70
Typical Urban Area	60-70
Typical Suburban Area	50-60
Quiet Suburban Area at Night	40-50
Typical Rural Area at Night	30-40
Isolated Broadcast Studio	20
Audiometric (Hearing Testing) Booth	10
Threshold of Hearing	0
Notes: A change in 3dB(A) is a just noticeable change in SPL. A change in 10 dB(A)Is perceived as a doubling or halving in SPL.	
Source: 2021 CEQR Technical Manual	

The following are typical human perceptions of dB(A) relative to changes in noise level:

- 3-dBA change is the threshold of change detectable by the human ear;
- 5-dBA change is readily noticeable; and
- 10-dBA change is perceived as a doubling or halving of the noise level.

The decrease in sound level caused by the distance from any single noise source normally follows the inverse square law (i.e., the sound intensity changes in inverse proportion to the square of the distance from the sound source). In a large open area with no obstructive or reflective surfaces, it is a general rule that the SPL from a point source of noise drops off at a rate of 6 dB with each doubling of distance away from the source. For “line” sources, such as vehicles on a street, the SPL drops off at a rate of 3 dBA with each doubling of the distance from the source. Sound energy is absorbed in the air as a function of temperature, humidity, and the frequency of the sound. This attenuation can be up to 2 dB over 1,000 feet. The drop-off rate also varies with both terrain conditions and the presence of obstructions in the sound propagation path.

The SPL that humans experience typically varies from moment to moment. Therefore, various descriptors are used to evaluate noise levels over time. Some typical descriptors are defined below.

- L_{eq} is the continuous equivalent sound level. The sound energy from the fluctuating SPLs is averaged over time to create a single number to describe the mean energy, or intensity level. High noise levels during a measurement period would have a greater effect on the Leq than low noise levels. Leq has

an advantage over other descriptors because L_{eq} values from various noise sources can be added and subtracted to determine cumulative noise levels.

- $L_{eq(24)}$ is the continuous equivalent sound level over a 24-hour time period.

- Lmax is the highest SPL measured during a given period of time. It is useful in evaluating Leqs for time periods that have an especially wide range of noise levels.

The sound level exceeded during a given percentage of a measurement period is the percentile-exceeded sound level (LX). Examples include L10, L50, and L90. L10 is the A-weighted sound level that is exceeded 10% of the measurement period.

Noise Standards and Guidelines

In 1983, the New York City Department of Environmental Protection (NYCDEP) adopted the CEQR noise exposure guidelines for exterior noise levels. As shown in **Table 2.9-2** below (Table 19-2 of the *2021 CEQR Technical Manual*), noise standards classify noise exposure into four categories based on noise level limits and land use, for vehicular traffic, rail, and aircraft noise sources: Acceptable, Marginally Acceptable, Marginally Unacceptable, and Clearly Unacceptable. Table 19-3 of The *2021 CEQR Technical Manual* (**Table 2.9-3** below) defines attenuation requirements for buildings based on exterior noise exposure levels. Recommended noise attenuation values for buildings are designed to maintain interior noise levels (L10 or Ldn, depending on the source) of 45 dBA or below.

Table 2.9-2: Noise Exposure Guidelines for Use in City Environmental Impact Review

Receptor Type	Time Period	Acceptable General External Exposure	Airport[3] Exposure	Marginally Acceptable General External Exposure	Airport[3] Exposure	Marginally Unacceptable General External Exposure	Airport[3] Exposure	Clearly Unacceptable General External Exposure	Airport[3] Exposure
1. Outdoor area requiring serenity and quiet[2]		$L_{10} \leq 55$ dBA	----------DNL ≤ 60 dBA----------		----------60 < DNL ≤ 65 dBA----------		(I) 65 < DNL ≤ 75 dBA		---------- 75 dBA < DNL ----------
2. Hospital, nursing home		$L_{10} \leq 55$ dBA		55 < $L_{10} \leq 65$ dBA		65 < $L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
3. Residence, residential hotel, or motel	(7 AM to 10 PM)	$L_{10} \leq 65$ dBA		65 < $L_{10} \leq 70$ dBA		70 < $L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
	(10 PM to 7 AM)	$L_{10} \leq 55$ dBA		55 < $L_{10} \leq 70$ dBA		70 < $L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
4. School, museum, library, court, house of worship, transient hotel or motel, public meeting room, auditorium, out-patient public health facility		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)	
5. Commercial or office		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)		Same as Residential Day (7 AM-10 PM)	
6. Industrial, public areas only[4]	Note 4	Note 4		Note 4		Note 4		Note 4	

Notes:

(i) In addition, any new activity shall comply with Impact Thresholds detailed in Section 410.

[1] Measurements and projections of noise exposures are to be made at appropriate heights above site boundaries as given by American National Standards Institute (ANSI) Standards; all values are for the worst hour in the time period.

[2] Tracts of land where serenity and quiet are extraordinarily important and serve as important public need, and where the preservation of these qualities is essential for the area to serve its intended purpose. Such areas could include amphitheaters, particular parks or portions of parks, or open spaces dedicated or recognized by appropriate local officials for activities requiring special qualities of serenity and quiet. Examples are grounds for ambulatory hospital patients and patients and residents of sanitariums and nursing homes.

[3] One may use the FAA-approved DNL contours supplied by the Port Authority of New York and New Jersey (PANYNJ), or the noise contours may be computed from the federally approved Aviation Environmental Design Tool (AEDT) Computer Model using flight data supplied by the PANYNJ.

[4] External Noise Exposure standards for industrial areas of sounds produced by industrial operations other than operating motor vehicles or other transportation facilities are spelled out in the New York City Zoning Resolution, Sections 42-20 and 42-21. The referenced standards apply to M1, M2, and M3 manufacturing districts and to adjoining residence districts (performance standards are listed by octave bands).

Sources: New York City Department of Environmental Protection (adopted policy 1983).

Table 2.9-3: Attenuation Values to Achieve Acceptable Interior Noise Levels

	Marginally Unacceptable				Clearly Unacceptable
Vehicular Traffic	70 < L10 ≤ 73	73 < L10 ≤ 76	76 < L10 ≤ 78	78 < L10 ≤ 80	80 < L10
Aircraft[A]	65 < DNL ≤ 68	68 < DNL ≤ 71	71 < DNL ≤ 73	73 < DNL ≤ 75	75 < DNL
Train	65 < Ldn ≤ 68	68 < Ldn ≤ 71	71 < Ldn ≤ 73	73 < Ldn ≤ 75	75 < Ldn
Attenuation[B]	(i) 28 dB(A)	(ii) 31 dB(A)	(iii) 33 dB(A)	(iv) 35 dB(A)	See Note c

Source: Table 19-3, 2021 CEQR Technical Manual

Note:

A. DNL descriptor based on average values of Ldn over a year period.

B. The above composite window-wall attenuation values are for residential dwellings and community facility development. Commercial office spaces and meeting rooms would be 5 dB(A) less in each category. All of the above categories require a closed window situation and hence an alternate means of ventilation.

C. The required attenuation value is the difference between Lbuild and Linterior, using the appropriate noise descriptor Where:
Lbuild is the projected noise level under the build condition rounded up to the whole number
Linterior is the designed interior noise level (45 dB(A) for vehicular noise, 40 dB(A) for aircraft and train noise)

Measurement Location and Equipment

Because the predominant noise sources in the area of the proposed project consist of vehicular traffic, noise monitoring was conducted during peak weekday vehicular travel periods (AM, Midday, PM) on a typical midweek day. Pursuant to *CEQR Technical Manual* Methodology, three (3) measurements were collected for 20-minute periods: Location One (1) was collected along Spencer Street on the Projected Development Site 1 facade; Location Two (2) was collected along Myrtle Avenue between Walworth Street and Spencer Street on the Projected Development Site 1 façade; and Location Three (3) was collected along Walworth Street on the Projected Development Site 2 façade. The noise monitoring locations are shown in **Figure 2.9-1** and **Photos 2.9-1** through **2.9-3** below.

Noise monitoring was conducted using a using Type 1 Casella CEL- 633 sound level meter with windscreen. The monitor was placed on a tripod at a height of approximately five feet above the ground, away from any other noise-reflective surfaces. The monitor was calibrated prior to and following each monitoring session. Periods of peak vehicular traffic around the Project Area constitute a worst-case condition for noise.

Figure 2.9-1: Noise Monitoring Locations



Photo 2.9-1: ***Noise Monitoring Location One (1)***
Spencer Street



Photo 2.9-2: ***Noise Monitoring Location Two (2)***
Myrtle Avenue



Photo 2.9-3: ***Noise Monitoring Location Three (3)***
Walworth Street



Measurement Conditions

Monitoring was conducted during typical midweek conditions, on Wednesday, November 17, 2021. The weather was dry and wind speeds were moderate during all monitoring periods. The sound meter was calibrated before and after each monitoring session.

Existing Conditions

Based on the noise measurements, the predominant source of noise is vehicular traffic.

Tables 2.9-4 *through* ***2.9-6*** *below contain the results for the measurements taken at the Project Site:*

Table 2.9-4: Noise Levels (dB) at Location 1

Wednesday, November 17, 2021			
	8:13 am – 8:34 am	**12:43 pm – 1:03 pm**	**5:14 pm – 5:34 pm**
L_{max}	92.3	86.3	89.9
L_{10}	**71.5**	65.0	64.0
L_{eq}	68.3	62.9	64.0
L_{50}	58.0	59.0	57.5
L_{90}	52.5	54.5	53.5
L_{min}	50.4	51.6	51.5

Note: **Bold** denotes L_{10} or L_{eq} noise level exceedances according to the CEQR Technical Manual

Table 2.9-5: Noise Levels (dB) at Location 2

Wednesday, November 17, 2021			
Time	**7:52 am – 8:12 am**	**12:21 pm – 12:41 pm**	**4:52 pm – 5:12 pm**
L_{max}	91.3	85.7	85.7
L_{10}	**72.0**	69.5	69.0
L_{eq}	69.8	66.5	66.3
L_{50}	64.5	63.0	62.0
L_{90}	58.5	58.5	58.0
L_{min}	54.1	54.2	53.2

Note: **Bold** denotes L_{10} or L_{eq} noise level exceedances according to the CEQR Technical Manual

Table 2.9-6: Noise Levels (dB) at Location 3

Wednesday, November 17, 2021			
Time	**7:30 am – 7:50 am**	**12:00 pm – 12:20 pm**	**4:30 pm – 4:50 pm**
L_{max}	82.4	76.5	95.5
L_{10}	65.5	66.0	66.5
L_{eq}	63.5	62.5	69.2
L_{50}	57.5	58.0	59.5
L_{90}	52.5	54.0	55.0
L_{min}	49.8	51.9	52.3

Note: **Bold** denotes L_{10} or L_{eq} noise level exceedances according to the CEQR Technical Manual

Tables 2.9-7 through **2.9-9** below contains the traffic counts and vehicle classifications during each monitoring period for 20 minutes:

Table 2.9-7: Location 1 Traffic volumes and vehicle classifications

	8:13 am – 8:34 am	**12:43 pm – 1:03 pm**	**5:14 pm – 5:34 pm**
Car/ Taxi	8	13	20
Van/Light Truck/SUV	11	16	18
Medium Truck	4	4	4
Heavy Truck	0	0	0
Bus	8	1	0
Train	0	0	0

Table 2.9-8: Location 2 Traffic volumes and vehicle classifications

	7:52 am – 8:12 am	**12:21 pm – 12:41 pm**	**4:52 pm – 5:12 pm**
Car/ Taxi	55	70	80
Van/Light Truck/SUV	53	65	49
Medium Truck	24	22	17
Heavy Truck	4	3	0
Bus	20	4	14
Train	0	0	0

Table 2.9-9: Location 3 Traffic volumes and vehicle classifications

	7:30 am – 7:50 am	**12:00 pm – 12:20 pm**	**4:30 pm – 4:50 pm**
Car/ Taxi	17	8	12
Van/Light Truck/SUV	26	22	16
Medium Truck	5	3	2
Heavy Truck	1	0	0
Bus	1	1	1
Train	0	0	0

Conclusion

The *2021 CEQR Technical Manual* contains noise exposure guidelines. For a residential use such as would occur under the Proposed Actions, an L_{10} of between 65 and 70 dB(A) is identified as marginally acceptable general external exposure. An L_{10} of between 70 and 80 dB(A) is identified as marginally unacceptable general external exposure. The highest recorded L_{10} at Location One (1) was 71.5 dB(A) during the morning monitoring period; The highest recorded L_{10} at Location Two (2) was 72.0 dB(A) during the morning monitoring period; The highest recorded L_{10} at Location Three (3) was 66.5 dB(A) during the evening monitoring period.

Based on the noise monitoring results, an E-Designation related to noise is to be placed on the Projected Development Sites as follows:

E-Designation (E-695)

Projected Development Site 1 (Block 1735 / Lot 39): In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed-window condition with a minimum of 28 dB(A) window/wall attenuation on the southern façade facing Myrtle Avenue, the western façade facing Spencer Street, and the eastern façade facing Walworth Street within 50 feet of Myrtle Ave to maintain an interior noise level not greater than 45 dB(A). To maintain a closed-window condition, an alternate means of ventilation must be provided. Alternate means of ventilation includes, but is not limited to, central air conditioning.

Projected Development Site 2 (Block 1735 / Lots 33, 34, and 35): In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed-window condition with a minimum of 28 dB(A) window/wall attenuation on the southern façade facing Myrtle Avenue, the western façade facing Spencer Street within 50 feet of Myrtle Ave, and the eastern façade facing Walworth Street within 50 feet of Myrtle Ave to maintain an interior noise level not greater than 45 dB(A). To maintain a closed-window condition, an alternate means of ventilation must be provided. Alternate means of ventilation includes, but is not limited to, central air conditioning.

The above noise attenuation requirements are detailed in **Figure 2.9-2** below.

With these provisions in place, there is no potential for significant adverse impacts on project occupants due to noise exposure.

Figure 2.9-2: Required Noise Attenuation



2.10 Construction

Construction, although temporary, can result in disruptive and noticeable effects on the Rezoning Area. A determination of the significance of construction and the need for mitigation is based on the duration and magnitude of these effects. Construction is typically of greatest importance when it could affect traffic conditions, archaeological resources, and the integrity of historic resources, community noise patterns and air quality conditions. All analyses were undertaken in accordance with the guidelines contained in the *2021 CEQR Technical Manual*.

The Proposed Actions involve a zoning map amendment and zoning text amendment that would affect Block 1735, Lots 33, 34, and 35, and portions (p/o) of Lots 32, 36, 37, 38 and 39 (the Rezoning Area) in the Bedford-Stuyvesant neighborhood of Brooklyn, Community District 3. The Rezoning Area is bound by Myrtle Avenue to the south, Spencer Street to the west, Walworth Street to the east, and Park Avenue to the north.

The proposed zoning map amendment would rezone Block 1735; Lots 33, 34, 35; and p/o of Lots 32, 36, 37, 38, and 39 from M1-1 to R7D/C2-4. The proposed zoning text amendment includes modifying Appendix F of the Zoning Resolution, Brooklyn CD 3 Map 13b to establish an area coterminous with the rezoning area as a Mandatory Inclusionary Housing (MIH) area for which Options 1 and 2 are being sought by the Applicant for maximum flexibility.

Analysis Framework

No-Action Condition

The No-Action Scenario is the same as the existing conditions in which the Projected Development Site 1 remains vacant. The non-applicant-owned sites would also remain in their existing conditions. No alternate plans for Projected Development Site 1 have been filed with the DOB, and the existing M1-1 zoning district's high parking requirement (1 space per 300 SF of uses) and low FAR (1.00) make redevelopment unlikely.

With-Action Condition

Projected Development Site 1
Under the Future With-Action Scenario, it is assumed the Projected Development Site 1 (Block 1735, Lot 39) would be developed with an 11-story (115-foot-tall) 72,349 GSF (48,211 ZSF; 5.60 FAR) mixed commercial and residential building that would include 53,128 GSF of residential floor area (44,288 ZSF; 5.14 FAR), 12,497 GSF (3,923 ZSF; 0.46 FAR) of ground floor commercial space, and 6,724 GSF of parking comprised of 16 off-street parking spaces in the cellar of the proposed building.

Projected Development Site 2
Three non-applicant-owned lots, Block 1735, Lots 33, 34, and 35, would assemble to form a 4,800-sf corner lot. The building would be 31,196 GSF (26,880 ZSF; 5.60 FAR) and rise to a height of 115 feet at 11 stories tall. There would be 25,142 GSF of residential floor area on floors 2 through 11. The ground floor would

contain 3,744 GSF of commercial local retail. A 2,310 GSF cellar would contain 7 enclosed residential accessory parking spaces.

Build Year

The analysis year for the Proposed Actions is 2027 based on an 18-month environmental and ULURP review process, followed by an approximately 18-month construction schedule for Projected Site 1 with construction complete by November 2024. Projected Site 2 is anticipated to begin construction in May of 2026 following design, financing, and lot assemblage, with construction complete within 18 months by December 2027.

Construction would be completed in two phases, with each Projected Development Site completed within 18-months and a gap of 18-months between the completion of Projected Development Site 1 and the start of Construction at Projected Development Site 2. Therefore, as discussed below, potential construction impacts would be minimal. The Rezoning Area is located within a Non-Central Business District. A brief discussion of the effects associated with the construction related activities on traffic, air quality, noise, historical resources, and hazardous materials resulting from the construction on the Projected Development Sites.

Effect of Construction on Traffic

According to the *2021 CEQR Technical Manual*, a number of factors should be considered before determining whether a preliminary assessment of the effect of construction on transportation is needed including:

1. Whether the project's construction would be located in a Central Business District (CBD) or along an arterial or major thoroughfare;
2. Whether the project's construction activities would require closing, narrowing, or otherwise impeding moving lanes, roadways, key pedestrian facilities, parking lanes and/or parking spaces, bicycle routes and facilities, bus lanes or routes, or access points to transit; and
3. Whether the project would involve construction on multiple development sites in the same geographic area, such that there is the potential for several construction timelines to overlap, and last for more than two years overall.

The Proposed Actions would result in new development on Projected Development Site 1, which is currently vacant, and Projected Development Site 2, occupied by a three 3-story mixed commercial and residential buildings on Lot 33, 34, and 35, respectively. The Projected Development Sites are located within a Non-Central Business District.

Projected Development Site 1 has frontages along Myrtle Avenue (principal arterial road) and Spencer Street (local road), while Projected Development Site 2 has frontages along Myrtle Avenue (principal arterial road) and Walworth Street (local road). Although the project would involve construction on multiple development sites on the same block, the overall construction of the development sites would be considered short term (less than two years each), with an 18-month gap between the completion of Projected Development Site 1 and the start of construction at Projected Development Site 2.

During construction, vehicle trips from workers traveling to and from the construction site would be generated, and from the movement of materials and equipment.

The infrastructure of New York City is comprised of physical systems that support the population, including water supply, wastewater, sanitation, energy, roadways, bridges, tunnels, and public transportation. Given typical construction hours of 7:00 AM to 4:00 PM, worker trips would be concentrated in off-peak hours typically before both the AM and PM peak commuter periods. Truck movements typically would be spread throughout the day on weekdays and would generally occur between the hours of 7:00 AM and 4:30 PM. Traffic generated by construction workers traveling to and from their work sites and construction truck traffic would not represent a substantial increment during the area's peak travel periods. Construction activities may result in short-term disruption of both traffic and pedestrian movements at the development sites. This would occur primarily due to the temporary loss of curbside lanes from the staging of equipment and the movement of materials to and from the sites. However, these conditions would not lead to significant adverse effects on traffic and transportation conditions. The NYC DOT will need to review any planned sidewalk or parking/moving lane closures in the Maintenance and Protection of Traffic Plan that DOT will review before issuing permits for these closures. Therefore, construction of the development sites is not expected to result in long-term impact to pedestrian flow or the availability of parking, nor are changes to moving traffic lanes expected. Considering the above, construction of the development sites would not be expected to result in significant adverse impacts on transportation.

Effect of Construction on Air Quality

Possible impacts on local air quality during construction induced by the Proposed Actions include fugitive dust (particulate) emission from land clearing operation and demolition as well as mobile source emissions (hydrocarbons, nitrogen oxide, and carbon monoxide) generated by construction equipment and vehicles.

Fugitive dust emissions from land clearing operations can occur from excavation, hauling, dumping, spreading, grading, compaction, wind erosion, and traffic over unpaved areas. Actual quantities of emissions depend on the extent and nature of the clearing operations, the type of equipment employed, the physical characteristics of the underlying soil, the speed at which construction vehicles are operated, and the type of fugitive dust control methods employed. Much of the fugitive dust generated by construction activities should be of a short-term duration and relatively contained within a proposed site, not significantly impacting nearby buildings or residents. All appropriate fugitive dust control measures – including watering of exposed areas and dust covers for trucks – would be employed during construction of the development sites. Therefore, the fugitive source emissions generated by the Proposed Actions would not be significant.

Mobile source emissions may result from the operation of construction equipment, trucks delivering materials and removing debris, workers' private vehicles, or occasional disruptions in traffic near the construction site. As the number of construction-related vehicle trips generated by the Proposed Actions would be relatively small and the emissions from such vehicles as well as construction equipment would occur over a limited

period, the mobile source emissions generated by the Proposed Actions would not be significant. Overall, the Proposed Actions would not have the potential to result in significant adverse air quality impacts.

Effect of Construction on Noise

Noise and vibration from construction equipment operation and noise from construction workers' vehicles and delivery vehicles traveling to and from the construction sites can affect community noise levels. The level of impact of these noise sources depends on the noise characteristics of the equipment and activities involved the construction schedule, and the location of potentially sensitive noise receptors.

Noise and vibration levels at a given location are dependent on the kind and number of pieces of construction equipment being operated, as well as the distance of the location from the construction site and the types of structures, if any, between the location and the noise source. Noise levels caused by construction activities can vary widely, depending on the phase of construction (e.g., demolition, land clearing and excavation, foundation, erection of structure, construction of exterior walls) and the specific task being undertaken.

Construction noise associated with the Proposed Actions is expected to be like noise generated by other residential and mixed-use construction projects in the city. Increased noise level caused by construction activities can be expected to be more significant during early excavation phases of construction and would be of relatively short duration. Increases in noise levels caused by delivery trucks and other construction vehicles would not be significant.

Construction noise is regulated by the New York City Noise Control Code and by Environmental Protection Agency noise emission standards for construction equipment. These local and federal requirements mandate that certain classifications of construction equipment and motor vehicles meet specified noise emissions standards; that, except under exceptional circumstances, construction activities be limited to weekdays between the hours of 7:00 AM and 6:00 PM; and that construction material be handled and transported in such a manner as not to create unnecessary noise. In addition, whenever possible, appropriate low noise emission level equipment and operational procedures can be utilized to minimize noise and its effect on adjacent uses.

Thus, while there may be short periods of time when noise is greater than the Noise Control Code, these regulations would be followed in such a matter that no significant adverse noise impacts would be expected to result from the Proposed Actions.

Effect of Construction on Historic Resources

In order to determine whether the Proposed Actions have the potential to affect historic or architectural resources, the study area was screened for historic and architectural resources. No historic or architectural resources were identified within the Rezoning Area or within the 400-foot study area. Therefore, adverse construction-related impacts are not expected as a result of the Proposed Actions.

Effect of Construction on Hazardous Materials

The Proposed Actions would result in new development in the area. As such, a hazardous materials assessment was undertaken, as presented Section 2.6 of this EAS. As discussed in the section, an E-Designation for Hazardous Materials would be placed on the Projected Development Sites to assure that testing and mitigation will be performed, as necessary, before any future development and/or soil disturbance. Further hazardous materials assessments should be coordinated through the Mayor's Office of Environmental Remediation (OER).

Conclusion

Based on the above qualitative construction analysis, and detailed analysis in the preceding technical sections, construction-related activities will not have any significant adverse impacts on traffic, air quality, noise, historic resources, or hazardous materials conditions as a result of the Proposed Actions. Accordingly, no further analysis is warranted.

Appendix A: Agency Correspondence

NYC Landmarks Preservation Commission

1 Centre Street
9th Floor North
New York, NY 10007

Voice (212)-669-7700
Fax (212)-669-7960
http://nyc.gov/landmarks

ENVIRONMENTAL REVIEW

Project number: LA-CEQR-K (DEPARTMENT OF CITY PLANNING)
Project:
Address: 703 MYRTLE AVENUE BBL: 3017350039
Date Received: 7/20/2020

[X] No architectural significance

[X] No archaeological significance

[ ] Designated New York City Landmark or Within Designated Historic District

[ ] Listed on National Register of Historic Places

[ ] Appears to be eligible for National Register Listing and/or New York City Landmark Designation

[ ] May be archaeologically significant; requesting additional materials

Gina Santucci 7/24/2020

SIGNATURE DATE
Gina Santucci, Environmental Review Coordinator

File Name: 35061_FSO_DNP_07242020.docx

Appendix B: Architectural Drawings

PROPOSED 8-STORY & CELLAR COMMERCIAL AND RESIDENTIAL BUILDING

703 MYRTLE AVE. BROOKLYN, NY



jfa

PRELIMINARY DESIGN DEVELOPMENT PACKAGE

PROPOSED C7D (C2-4 OVERLAY)

DECEMBER 30th, 2022

Lot Area	8,620
Maximum FAR	5.60
Maximum Zoning Floor Area	48,272

Legend	
	Retail (6C)
	Residential (2A/2B)
	Parking/Mechanical/Etc.

703 MYRTLE AVENUE

Lot Area					8,620
	Residential	Commercial		Deductions	Total
Cellar		*8,064*		N/A	-
		1,610			
First		4,805		336	4,469
	2,118			800	1,318
Mezzanine (Res.)	1,744			1,200	544
Second	7,259			994	6,264
Third	7,259			994	6,264
Fourth	7,259			994	6,264
Fifth	7,259			994	6,264
Sixth	7,259			994	6,264
Seventh	6,256			857	5,399
Eighth	5,994			821	5,173

Gross Subtotals	52,405	4,805	8,987	
Gross NB		**66,884**		
ZFA Zoning Lot Total				**48,224**

Permitted D.U. Count (NB)	64
Proposed D.U. Count (NB)	**54**
D.U. Per Residential Floor Approx.	7 TO 8

Residential	FAR (5.60 permitted)	5.08
	Floor Area (5.60 x 8,620 = 48,272 SF permitted)	43,755
Commercial	FAR (1.0 permitted)	0.52
	Floor Area (1.0 x 8,620 = 8,620 SF permitted)	4,469

Total Proposed FAR (5.60 permitted)	**5.60**
Remaining FAR	0.00
Total Proposed Floor Area (48,272 SF permitted)	**48,224**
Remaining Floor Area	48

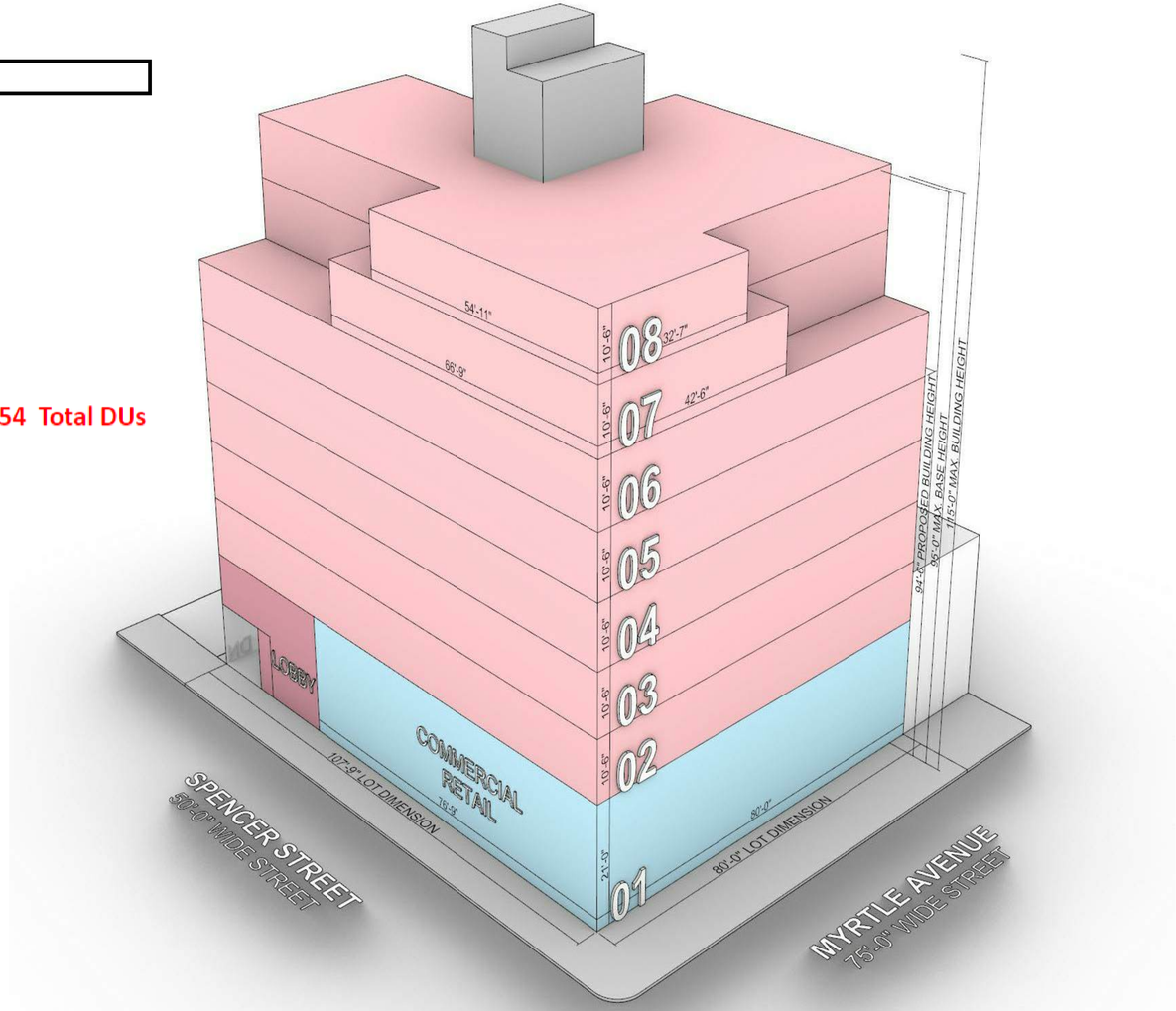
PARKING REQUIREMENTS	
Vehicle	
Commercial Req. Parking 6C (1:1000 SF) WAIVED UNDER 40	~~4~~
Residential 2B Req. Parking (30% of Market Rate DU)	11
Parking Spots Required	**11**

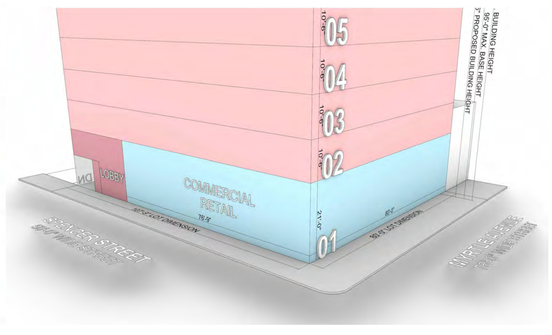
Bicycle	
Commercial Req. Parking 6C (1:10,000 SF)	1
Residential 2B Req. Parking	27
Parking Spots Required	**28**

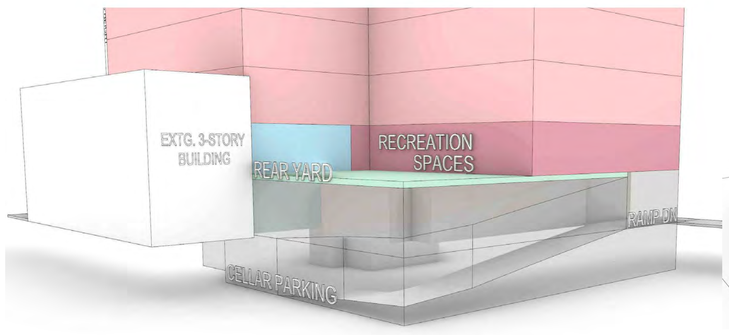
703 MYRTLE AVENUE

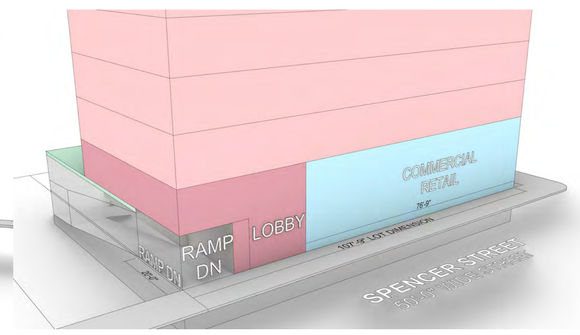
Floor Level	1 BD	2 BD	3 BD	4 BD
Second	4	2	1	1
Third	4	2	1	1
Fourth	4	2	1	1
Fifth	4	2	1	1
Sixth	4	2	1	1
Seventh	2	4	1	
Eighth	3	4		
	25	18	6	5
	46%	*33%*	*11%*	*9%*

54 Total DUs









jfa

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED MASSING & FLOOR AREA BREAKDOWN

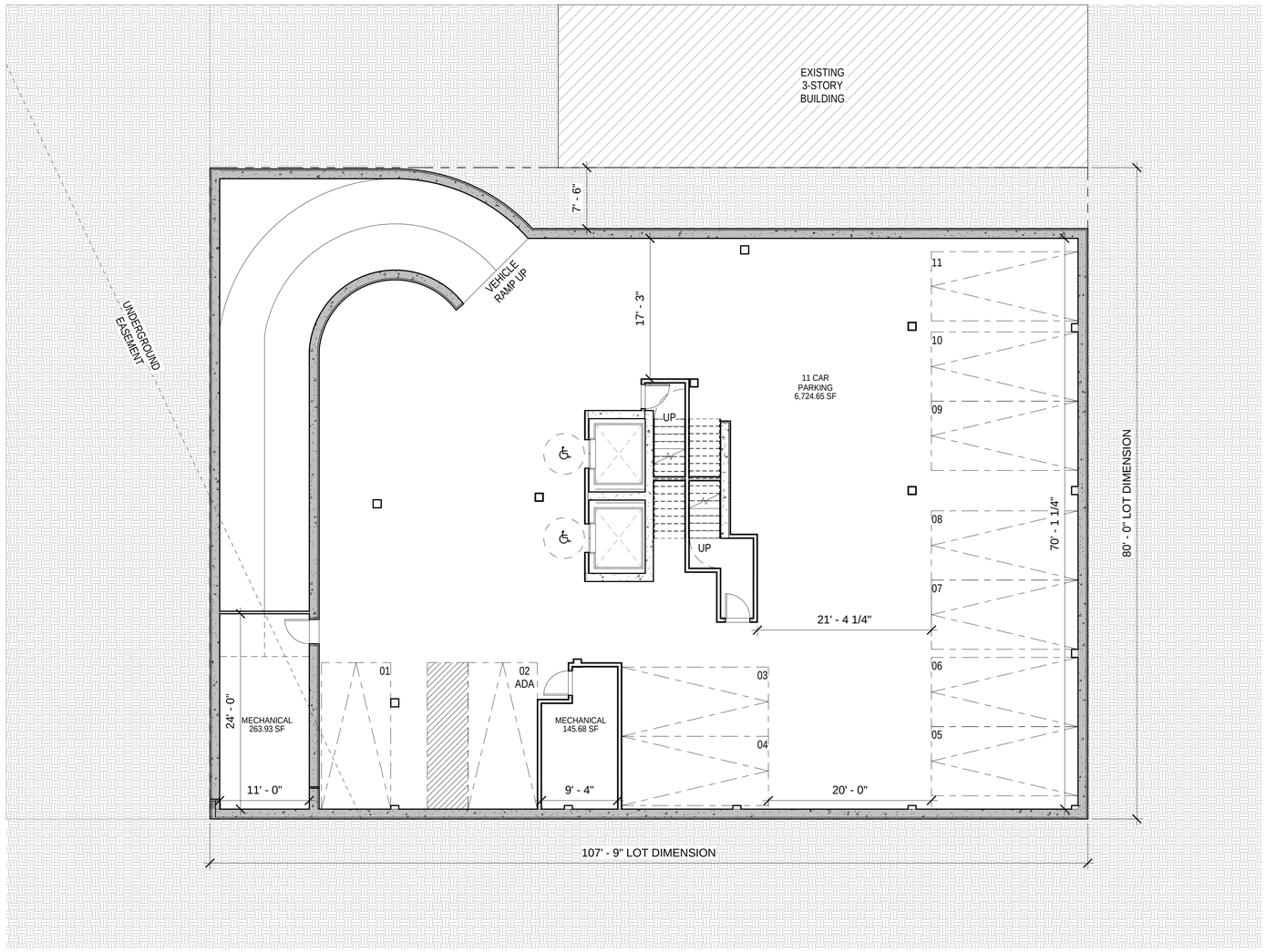
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

SPENCER STREET
(50'-0" WIDE STREET)

N

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED CELLAR PLAN

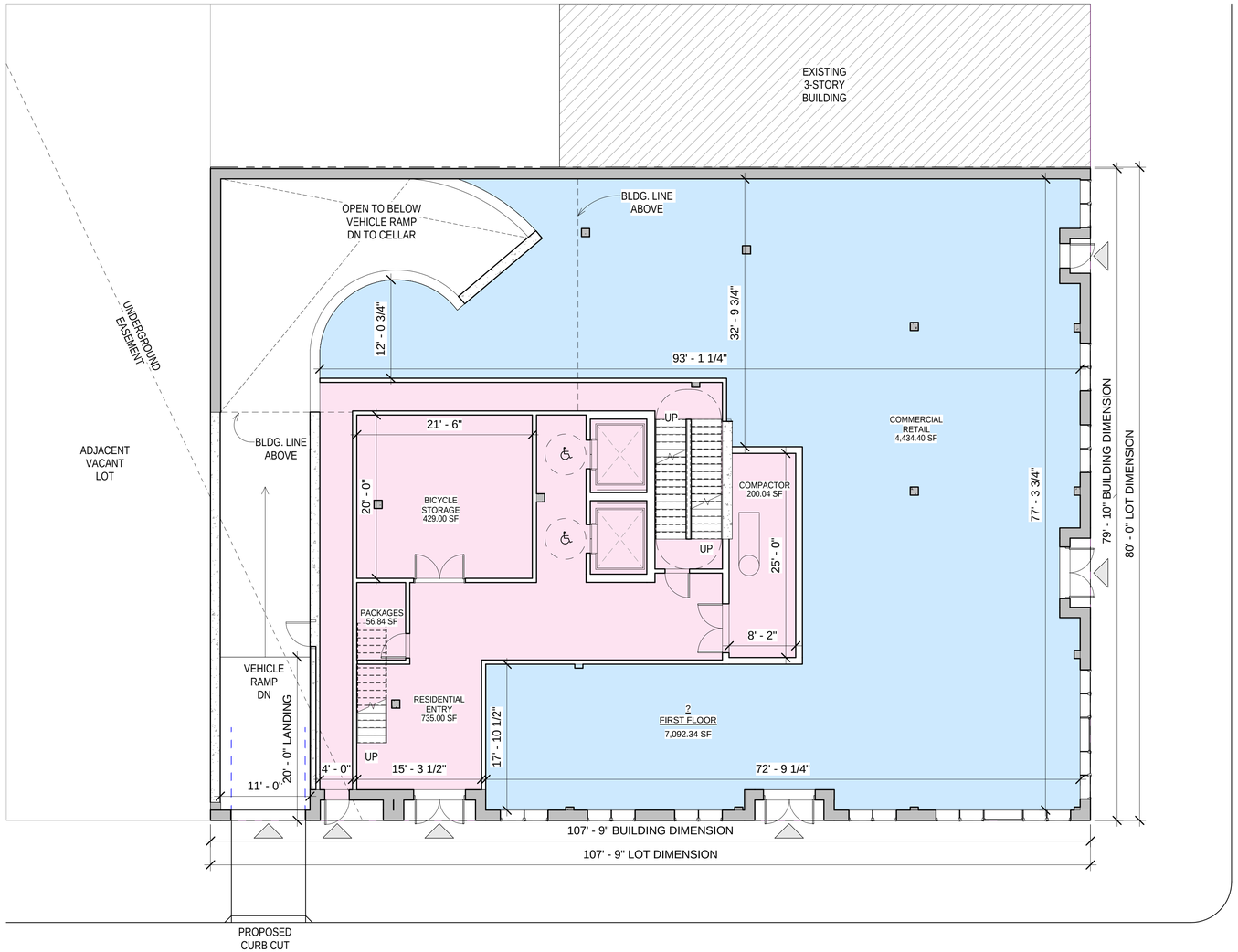
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

SPENCER STREET
(50'-0" WIDE STREET)

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED FIRST FLOOR PLAN

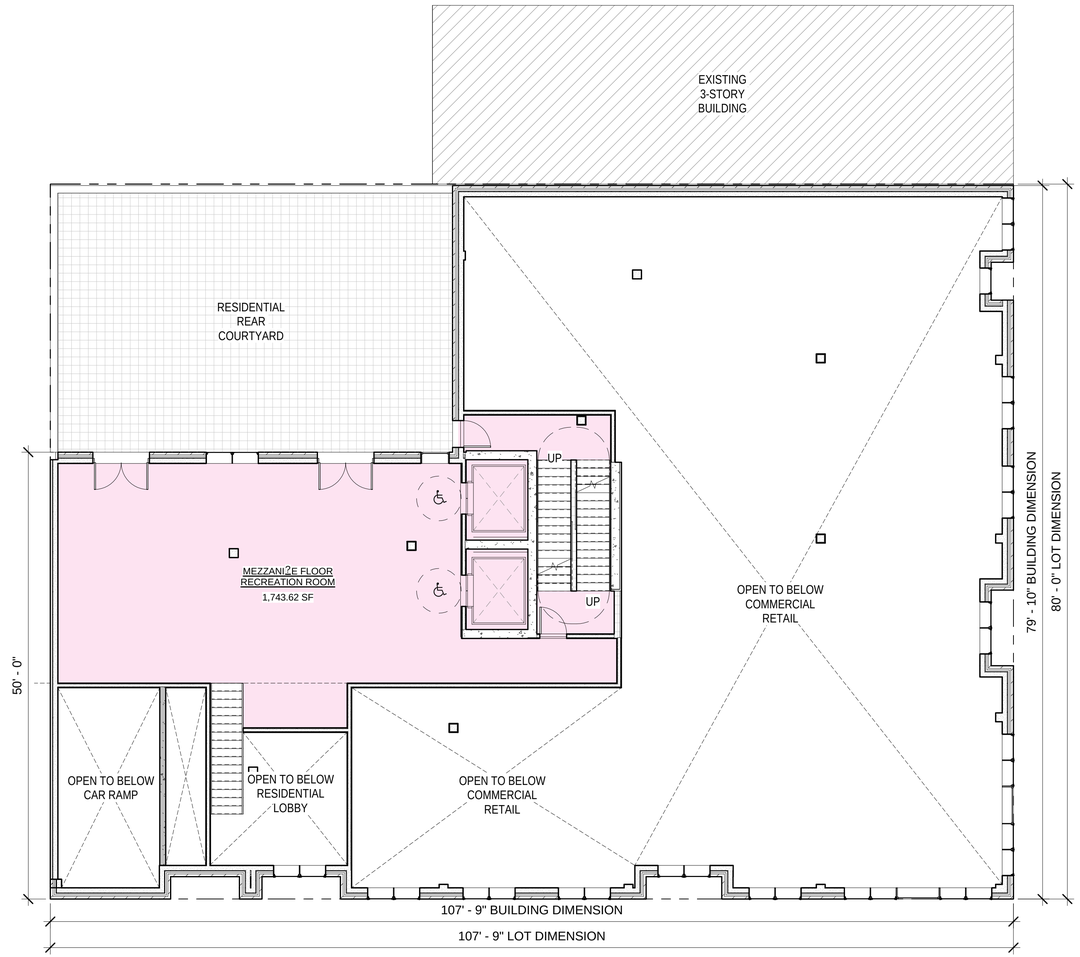
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

SPENCER STREET
(50'-0" WIDE STREET)

N

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED MEZZANINE FLOOR PLAN

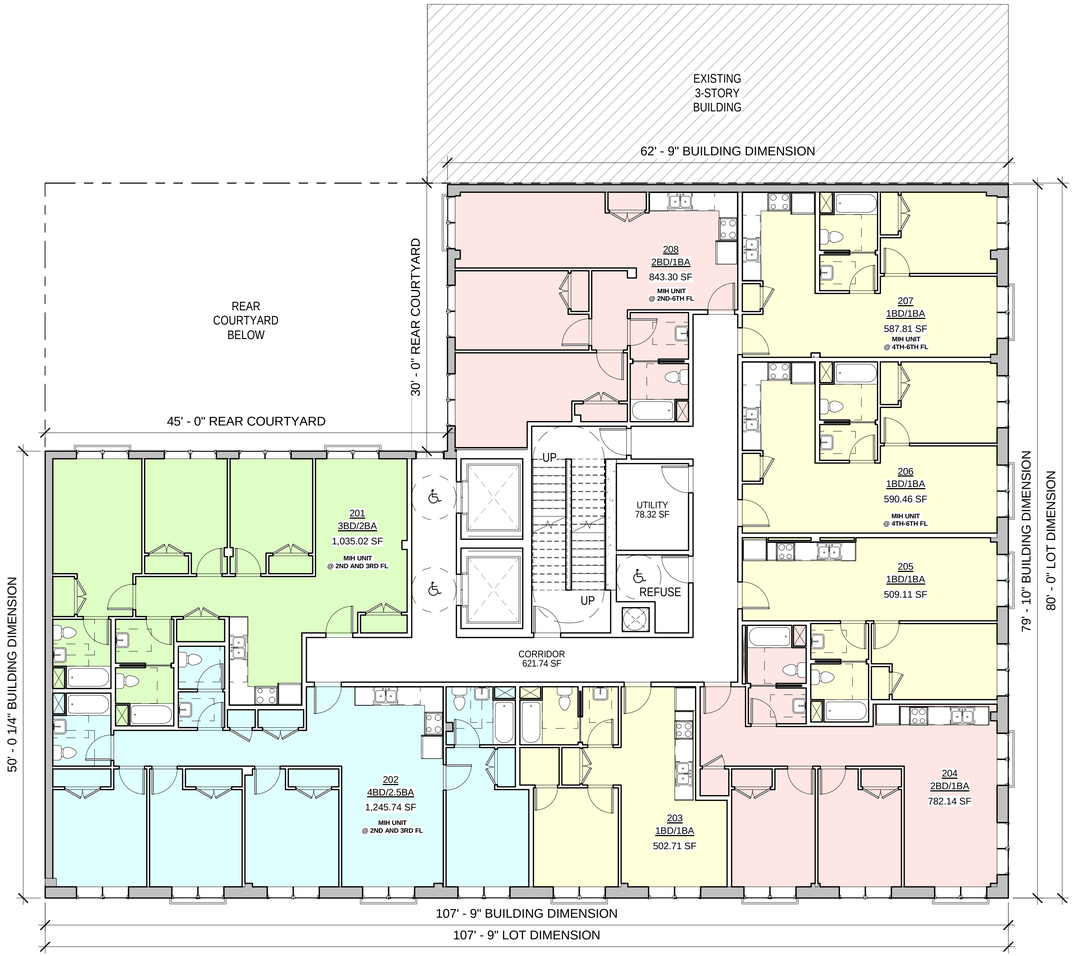
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

UNIT BREAKDOWN

- 1BD/1BA : 4 PER TYP. FLOOR
- 2BD/1BA : 2 PER TYP. FLOOR
- 3BD/2BA : 1 PER TYP. FLOOR
- 4BD/2.5BA : 1 PER TYP. FLOOR

= 8 PER TYP. FLOOR

SPENCER STREET
(50'-0" WIDE STREET)

N

jfa

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED TYPICAL (2ND-6TH) FLOOR PLAN

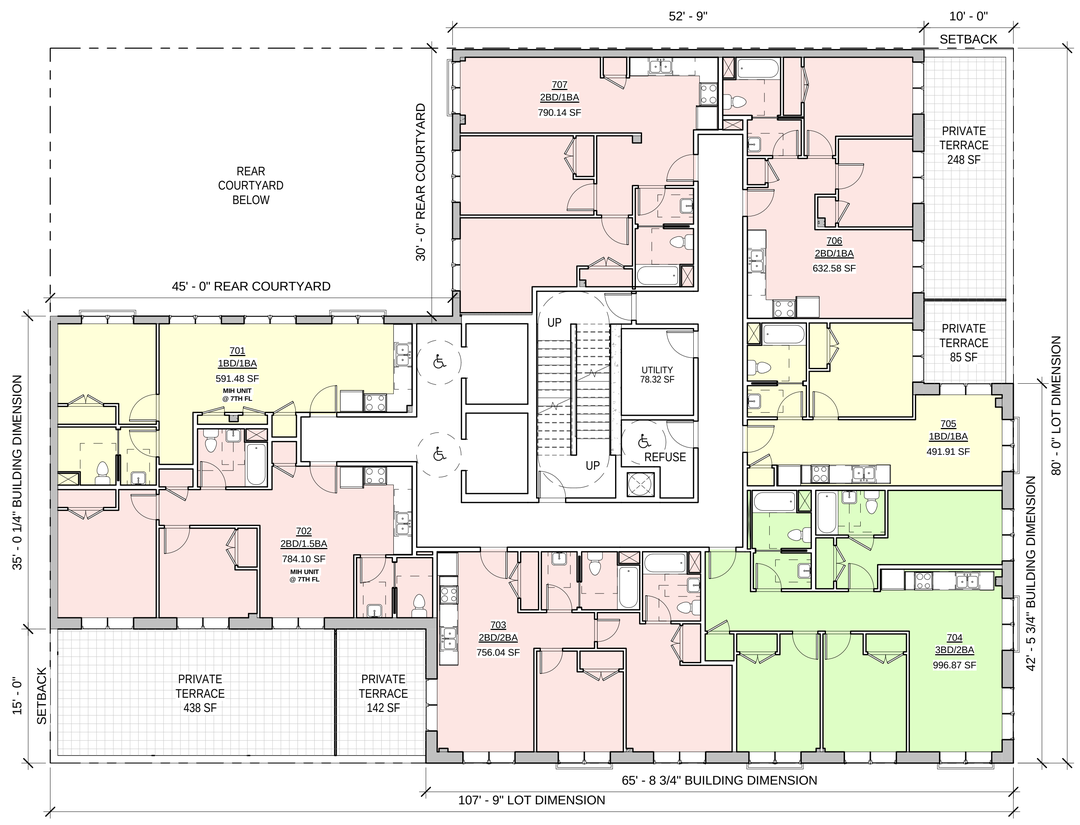
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

UNIT BREAKDOWN

- 1BD/1BA : 2 PER FLOOR
- 2BD/1BA : 2 PER FLOOR
- 2BD/1.5BA : 1 PER FLOOR
- 2BD/2BA : 1 PER FLOOR
- 3BD/2BA : 1 PER FLOOR

= 7 PER SEVENTH FLOOR

SPENCER STREET
(50'-0" WIDE STREET)

N

jfa

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED SEVENTH FLOOR PLAN

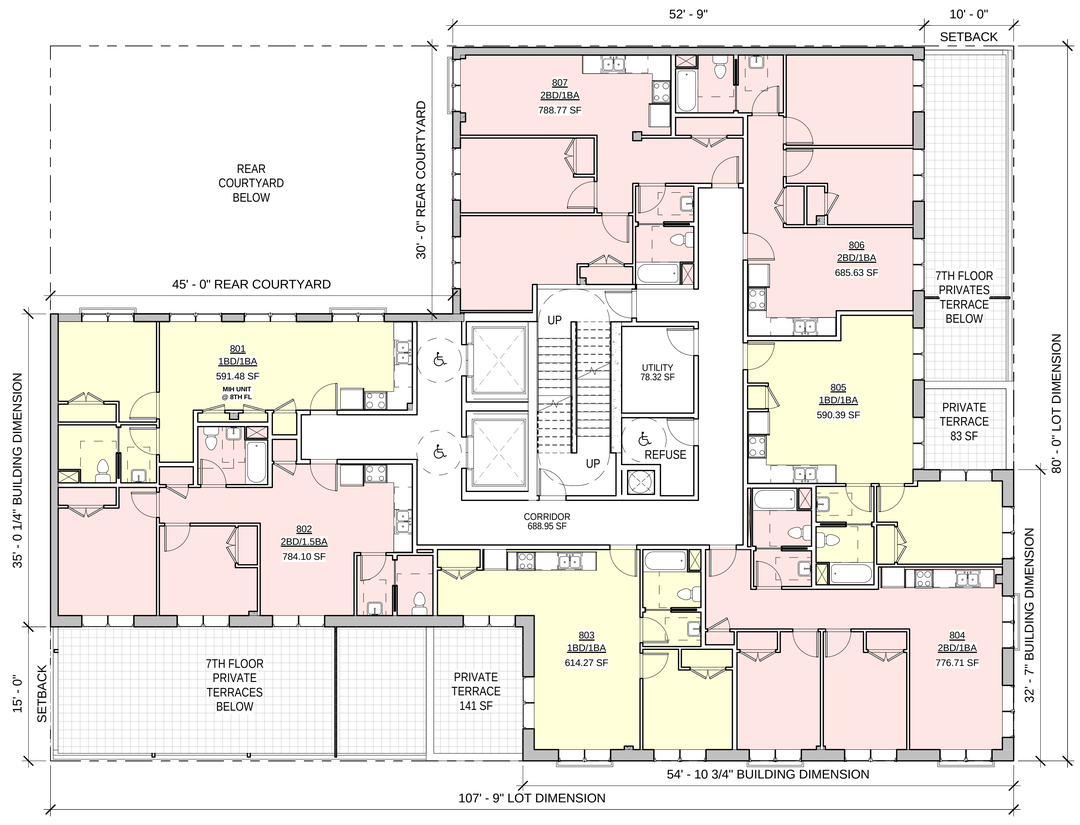
PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



MYRTLE AVENUE
(75'-0" WIDE STREET)

SPENCER STREET
(50'-0" WIDE STREET)

UNIT BREAKDOWN

1BD/1BA : 3 PER FLOOR
2BD/1BA : 3 PER FLOOR
2BD/1.5BA : 1 PER FLOOR

= 7 PER SEVENTH FLOOR

N

jfa

J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED EIGHTH FLOOR PLAN

PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"

PROJECT ADDRESS:	703 Myrtle Avenue
BOROUGH BLOCK AND LOT:	BLOCK: 1735 LOT: 39
DATE:	12/30/2022

PLEASE FOLLOW STEPS 1-4. YELLOW BOXES REQUIRE INPUT.

STEP 1: PLEASE SELECT MIH OPTION

MIH OPTIONS	
OPTION 1: **25% of ResFA @ 60% AMI** weighted avg At least 10% of SF at 40% AMI No more than 3 income bands No income band > 130% AMI	**OPTION 2:** **30% of ResFA @ 80% AMI** weighted avg No more than 3 income bands No income band > 130% AMI
Option 3: **20% of ResFA @ 40% AMI** weighted avg No income band > 130% AMI Public funds per HPD exception only	**OPTION 4:** **30% of ResFA @ 115% AMI** weighted avg At least 5% of SF at 70% AMI At least 5% of SF at 90% AMI No more than 4 income bands No income band > 135% AMI

PLEASE SELECT MIH OPTION
(select from pulldown menu)

OPTION SELECTED:

OPTION 2

STEP 2: PLEASE ENTER MIH UNITS ONLY

Construction Floor #	Marketing Floor #	Apt #	# BRs	MIH Unit Size (SF)	AMI
2	2	201	3	445	80
2	2	202	4	438	80
2	2	208	2	445	80
3	3	301	3	445	80
3	3	302	4	445	80
3	3	308	2	662	80
4	4	406	1	664	80
4	4	407	1	706	80
4	4	408	2	439	80
5	5	506	1	826	80
5	5	507	1	641	80
5	5	508	2	847	80
6	6	606	1	614	80
6	6	607	1	765	80
6	6	608	2	671	80
7	7	701	1	590	80
7	7	702	2	641	80
8	8	801	1	980	80

AFFORDABLE HOUSING SF:	13,199.14

MIH UNIT SUMMARY:

Unit Type	IH Units
0 BEDROOM	0
1 BEDROOM	8
2 BEDROOM	6
3 BEDROOM	2
4 BEDROOM	2
Total	**18**

STEP 3: PLEASE FILL OUT BASED ON ARCHITECT'S AFFIDAVIT

Per ARCHITECT's AFFIDAVIT Dated:

SECTION 5 - TTL RESIDENTIAL SF:	43,755
SECTION 6 - MIH UNIT SF:	11,264.00
SECTION 7 - NON-MIH UNIT SF:	26,076
SECTION 8 - COMMON FLOOR AREA w/ FEE:	0
SECTION 9 - TTL AFFORD. FLOOR AREA:	**13,199.14**

IH SF % of TOTAL SF:	30.16%
WEIGHTED AVERAGE AMI:	80.0%
MIH FEE OWED:	$19,800.00
OPTION 2 IN COMPLIANCE?*	YES

WHY?:
-
-
-
-
-

STEP 4: PLEASE FILL OUT TABLE BELOW

Per ARCHITECT's ZONING Dated: 12/30/2022

GROSS BUILDING SF:	66884.00
GROSS COMMERCIAL SF:	4805.00
GROSS COMMUNITY SF:	
PARKING SF:	9474.00
OTHER SF:	

NOTE: All SF should be measured as NET SQUARE FOOTAGE. except where otherwise indicated.
• Per the definition of "Affordable Floor Area" set forth in Zoning Resolution § 23-911
• Such measurement excludes (a) the thickness of exterior walls, (b) the thickness of partitions separating such dwelling unit from any other dwelling units or other spaces, and (c) portions of such dwelling unit that do not qualify as Floor Area.

•Such measurement includes the square footage within the inside face of the walls enclosing such dwelling unit (i.e., all floor surfaces within the dwelling unit, including closets, and the partitions that separate rooms that are within the same dwelling unit).

Form 03-06-2019

PROJECT NAME: 703 MYRTLE AVENUE
ADDRESS: 703 MYRTLE AVENUE
DATE: 12/30/2022

Unit Size Comparison Chart

	MIH Units				Non - MIH Units			
# of BRs	Construction Floor #	Apt #	MIH Unit Size (SF)	AMI	Construction Floor #	Apt #	Non MIH Unit Size (SF)	AMI
1 BEDROOM	4	406	590.46	80%	2	203	502.71	
	4	407	587.81	80%	2	205	509.11	
	5	506	590.46	80%	2	206	590.46	
	5	507	587.81	80%	2	207	587.81	
	6	606	590.46	80%	3	303	502.71	
	6	607	587.81	80%	3	305	509.11	
	7	701	591.48	80%	3	306	590.46	
	8	801	591.48	80%	3	307	587.81	
					4	403	502.71	
					4	405	509.11	
					5	503	502.71	
					5	505	509.11	
					6	603	502.71	
					6	605	509.11	
					7	705	491.91	
					8	803	614.27	
					8	805	590.39	
Average 1 Bedroom Size		8	589.72			17	536.01	

Total Number of 1 BR MIH Units:	8
Average Size of 1 BR MIH Unit:	**589.72**
Total Number of 1 BR NON-MIH:	17
Average Size of 1 BR NON-MIH:	**536.01**

NOTE: All SF should be measured as NET SQUARE FOOTAGE.
• Per the definition of "Affordable Floor Area" set forth in Zoning Resolution § 23-911

• Such measurement excludes (a) the thickness of exterior walls, (b) the thickness of partitions separating such dwelling unit from any other dwelling units or other spaces, and (c) portions of such dwelling unit that do not qualify as Floor Area.

•Such measurement includes the square footage within the inside face of the walls enclosing such dwelling unit (i.e., all floor surfaces within the dwelling unit, including closets, and the partitions that separate rooms that are within the same dwelling unit).

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J Frankl C Mallea Associates
16 Court St, 36th Floor
Brooklyn NY 11241
718.569.2200

PROJECT:
703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:
MIH AREA BREAKDOWN

PROJECT INFORMATION:
BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"
LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)
DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"

PROJECT NAME: 703 MYRTLE AVENUE
ADDRESS: 703 MYRTLE AVENUE
DATE: 12/30/2022

Unit Size Comparison Chart

	MIH Units				Non - MIH Units			
# of BRs	Construction Floor #	Apt #	MIH Unit Size (SF)	AMI	Construction Floor #	Apt #	Non MIH Unit Size (SF)	AMI
2 BEDROOM	2	208	843.3	40%	2	204	782.14	
	3	308	843.3	60%	3	304	782.14	
	4	408	843.3	60%	4	404	782.14	
	5	508	843.3	60%	5	504	782.14	
	6	608	843.3	90%	6	604	782.14	
	7	702	784.1	90%	7	703	756.04	
					7	706	632.58	
					7	707	790.14	
					8	802	784.1	
					8	804	776.71	
					8	806	685.63	
					8	807	788.77	
Average 2 Bedroom Size		6	833.43			12	760.39	

Total Number of 2 BR MIH Units:	6
Average Size of 2 BR MIH Unit:	**833.43**
Total Number of 2 BR NON-MIH:	12
Average Size of 2 BR NON-MIH:	**760.39**

NOTE: All SF should be measured as NET SQUARE FOOTAGE.

- Per the definition of "Affordable Floor Area" set forth in Zoning Resolution § 23-911
- Such measurement excludes (a) the thickness of exterior walls, (b) the thickness of partitions separating such dwelling unit from any other dwelling units or other spaces, and (c) portions of such dwelling unit that do not qualify as Floor Area.
- Such measurement includes the square footage within the inside face of the walls enclosing such dwelling unit (i.e., all floor surfaces within the dwelling unit, including closets, and the partitions that separate rooms that are within the same dwelling unit).

Form 03-19-2019

PROJECT NAME: 703 MYRTLE AVENUE
ADDRESS: 703 MYRTLE AVENUE
DATE: 12/30/2022

Unit Size Comparison Chart

	MIH Units				Non - MIH Units			
# of BRs	Construction Floor #	Apt #	MIH Unit Size (SF)	AMI	Construction Floor #	Apt #	Non MIH Unit Size (SF)	AMI
3 BEDROOM	2	201	1035.02	80%	4	401	1035.02	
	3	301	1035.02	80%	5	501	1035.02	
					6	601	1035.02	
					7	704	996.87	
Average 3 Bedroom Size		2	1,035.02			4	1,025.48	

Total Number of 3 BR MIH Units:	2
Average Size of 3 BR MIH Unit:	**1,035.02**
Total Number of 3 BR NON-MIH:	4
Average Size of 3 BR NON-MIH:	**1,025.48**

PROJECT NAME: 703 MYRTLE AVENUE
ADDRESS: 703 MYRTLE AVENUE
DATE: 12/30/2022

Unit Size Comparison Chart

	MIH Units				Non - MIH Units			
# of BRs	Construction Floor #	Apt #	MIH Unit Size (SF)	AMI	Construction Floor #	Apt #	Non MIH Unit Size (SF)	AMI
4 BEDROOM	2	202	1245.74	80%	4	2	1245.74	
	3	302	1245.74	80%	5	3	1245.74	
					6	4	1245.74	
Average 4 BR Size		2	1,245.74			3	1,245.74	

Total Number of 4 BR MIH Units:	2
Average Size of STUDIO MIH Unit:	**1,245.74**
Total Number of 4 BR NON-MIH:	3
Average Size of STUDIO NON-MIH:	**1,245.74**

NOTE: All SF should be measured as NET SQUARE FOOTAGE.

- Per the definition of "Affordable Floor Area" set forth in Zoning Resolution § 23-911
- Such measurement excludes (a) the thickness of exterior walls, (b) the thickness of partitions separating such dwelling unit from any other dwelling units or other spaces, and (c) portions of such dwelling unit that do not qualify as Floor Area.
- Such measurement includes the square footage within the inside face of the walls enclosing such dwelling unit (i.e., all floor surfaces within the dwelling unit, including closets, and the partitions that separate rooms that are within the same dwelling unit).

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PROJECT:
703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:
MIH AREA BREAKDOWN

PROJECT INFORMATION:
BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"
LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)
DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



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PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED ILLUSTRATIVE ELEVATIONS

PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"



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PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED BUILDING FACADE

PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"





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PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

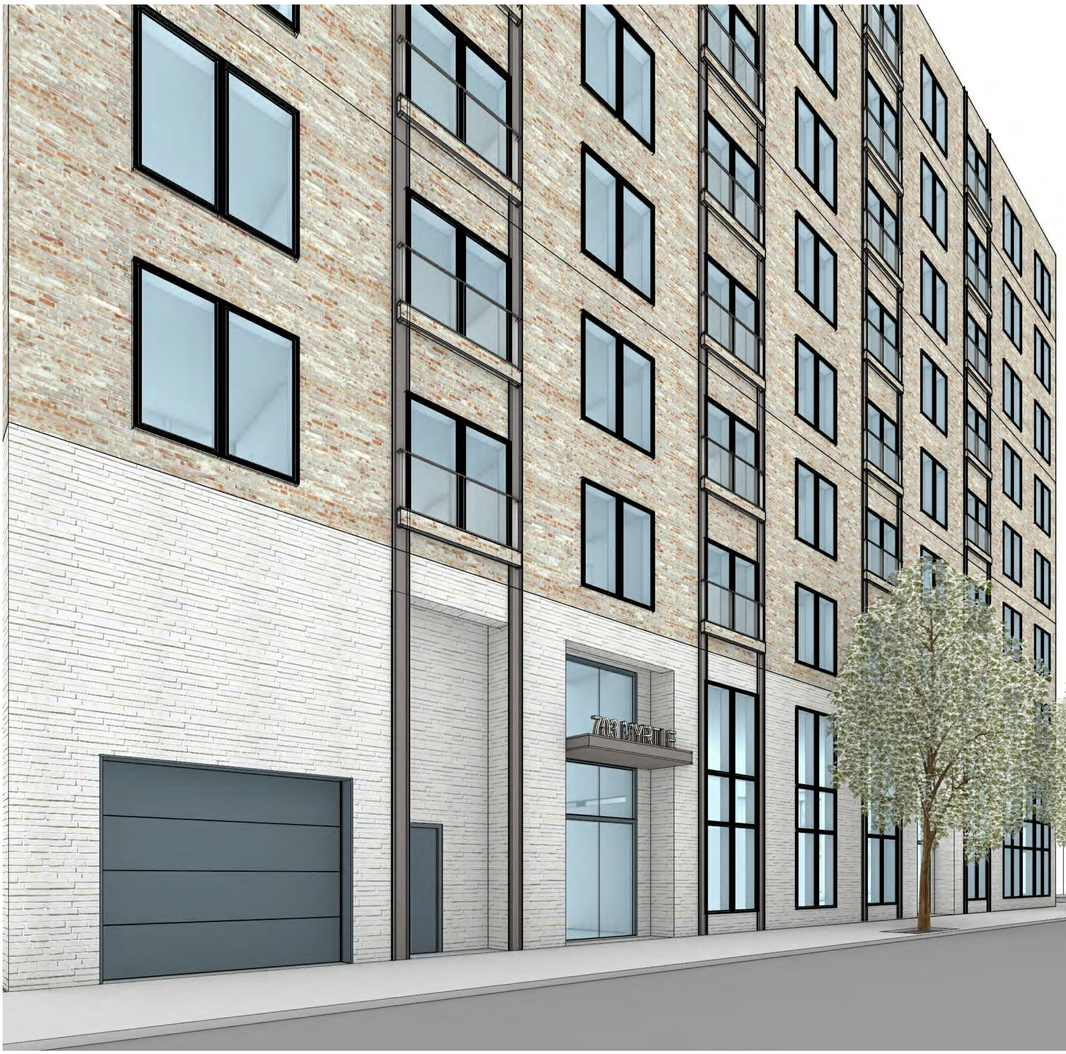
PROPOSED BUILDING STREET VIEWS

PROJECT INFORMATION:

BLOCK: 1735
LOT: 39
ZONE: R7D/ C2-4 OVERLAY
FAR: 5.6 MAX
LOT AREA: 8,620 SF
PARKING:
MAX BASE HEIGHT: 95'-0"
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
MAX BLDG. HEIGHT: 115'-0"
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"





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PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

PROPOSED BUILDING STREET VIEWS 2

PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"





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PROJECT:

703 MYRTLE AVENUE
BROOKLYN, NY 11205

DRAWING:

RENDERINGS

PROJECT INFORMATION:

BLOCK: 1735
ZONE: R7D/ C2-4 OVERLAY
LOT AREA: 8,620 SF
MAX BASE HEIGHT: 95'-0"
MAX BLDG. HEIGHT: 115'-0"

LOT: 39
FAR: 5.6 MAX
PARKING:
RESIDENTIAL REQ. - 30% D.U. (ZR 24-251) 11 VEHICLES
COMMERCIAL WAIVED < 40 SPOTS (ZR 25-33)

DUS: 65 PERMITTED, 54 PROPOSED
MIH: OPTION II 30% DUs @ 80% AMI

SCALE: 1/16" = 1'-0"

Appendix C: Phase I ESA

PHASE I ENVIRONMENTAL SITE ASSESSMENT



703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

Prepared for:

Ranco Capital LLC.
Ms. Alexandra Levy
1274 49th Street
Suite 443
Brooklyn, New York 11219

Prepared by:

EQUITY ENVIRONMENTAL ENGINEERING, LLC

500 International Drive, Suite 150
Mount Olive, New Jersey 07828
(973) 527-7451

PHASE I ENVIRONMENTAL SITE ASSESSMENT

703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

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703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

EXECUTIVE SUMMARY

Equity Environmental Engineering, LLC (Equity) was retained by Alexandra Levy c/o Ranco Capital LLC. to conduct a Phase I Environmental Site Assessment (Phase I) to identify Recognized Environmental Conditions (RECs) associated with current and prior site use at the property identified as 703 Myrtle Avenue, Brooklyn New York 11205. Equity conducted the assessment in accordance with the requirements of ASTM International Standard E1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" and good professional practices.

Site Overview

The Subject Property is as follows:

Property Designation	703 Myrtle Avenue
Property Address	703 Myrtle Avenue, Brooklyn, New York 11205
Parcel ID	Block 1735 / Lot 39
Parcel Size	8,620 Square Feet
Number of Buildings	No Permanent Structures
Number of Stories	No Permanent Structures
Finished Area (SF)	No Permanent Structures
Date Constructed	No Permanent Structures
Construction Type	No Permanent Structures
Property Usage	Marble showroom / office / parking and storage
Inspection Date	July 29, 2020
Weather Conditions	80°F, Sunny
Site Contact/Title	Jake Levy / International Stone Collections Manager
Site Contact Phone	646-323-9114

Definitions

The ASTM International Phase I Standard defines environmental conditions as follows:

- ***Recognized Environmental Conditions (RECs)***

  The term "Recognized Environmental Condition" means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any

release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- ***Controlled Recognized Environmental Conditions (CRECs)***

  The term "Controlled Recognized Environmental Condition" is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

- ***Historical Recognized Environmental Conditions (HRECs)***

  The term "Historical Recognized Environmental Condition" is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls, such as property use restrictions or activity and use limitations (AULs, which include both institutional controls and engineering controls).

- ***Vapor Encroachment Conditions (VECs)***

  The term "Vapor Encroachment Condition" is a condition where the presence or likely presence of chemicals of concern vapors in the subsurface of the target property caused by the release of vapors from contaminated soil and/or groundwater either on or near the target property.

- ***De Minimis Conditions***

  The term "De Minimis Condition" is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

- ***Data Gaps***

  The term "Data Gap" is a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

- ***Non-Scope Considerations***

  Consideration of business environmental risk issues some of which are identified in Section 13 and Appendix XI of ASTM International E1528-14e1 (e.g., asbestos, ecological resources, mold, radon, wetlands, regulatory compliance et. Al.).

Findings

The following environmental conditions were identified:

A. Recognized Environmental Conditions (RECs)

No RECs were identified as a result of this assessment.

B. Controlled Recognized Environmental Conditions (CRECs)

No Controlled RECs were identified as a result of this assessment.

C. Historical Recognized Environmental Conditions (HRECs)

No Historic RECs were identified as a result of this assessment.

D. Vapor Encroachment Conditions (VECs)

The EDR Vapor Encroachment database identified multiple VEC (Vapor Encroachment Conditions) of concern within 1/10 of a mile of the Subject Property related to a historic dry cleaner and historic auto garages. There are four total historic auto garages ranging from 120 feet from the Subject Property to 497 feet from the Subject Property. Three of the historic auto garages are at a higher elevation than the Subject Property. There is also one historic cleaner 450 feet from the Subject Property which is at a higher elevation than the Subject Property. According to the local city directory listings provided by EDR, Inc. a pest control business existed on the Subject Property in 2014 and 2017. Based on these findings, a vapor encroachment condition cannot be ruled out. Details on the VECs can be found in Appendix C.

E. De Minimis Conditions

No, De Minimis Conditions were identified as a result of this assessment.

F. Data Gaps

The only data gap encountered during the site visit was access to one of the trailers onsite. Access to the trailer used for the storage of supplies and unused materials for Tristate Steel Fireproofing was not provided. According to Mr. Levy the trailer did not contain any materials or equipment that could have potential environmental impacts. Equity does not believe this limiting condition significantly impacts the findings of the site reconnaissance.

Equity did not identify any other significant data gaps that would affect its ability to identify Recognized Environmental Concerns (RECs) associated with the Subject Property.

Conclusions

Equity's review of available information and observations of the subject and surrounding properties indicates that no RECs, CRECs, Historical RECs, or De Minimis conditions were identified as a result of this assessment. However, a VEC issue cannot be ruled out.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

I. INTRODUCTION

A. Purpose

Equity Environmental Engineering, LLC (Equity) was contracted by Alexandra Levy c/o Ranco Capital LLC. to perform a Phase I Environmental Site Assessment of the referenced property in accordance with the ASTM International Standard E1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The ASTM International Standard satisfies the requirements of the United States Environmental Protection Agency's (USEPA) All Appropriate Inquiry Standard, 40 CFR Part 312, which is required to qualify for certain landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The ASTM International Standard constitutes "all appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary practice". The investigation was conducted to identify Recognized Environmental Conditions (RECs), which are identified as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

It is Equity's understanding that the Phase I is being conducted to provide environmental support services required for a proposed rezoning at 703 Myrtle Avenue, Tax Block 1735, Lot 39.

B. Scope-of-Services

The Phase I consisted of the following components:

1. review of environmental and historical records
2. site reconnaissance
3. interviews
4. report preparation

The environmental assessment is non-invasive and does not include any testing or sampling of materials, such as soil, water, air or building materials. The environmental assessment included a non-invasive (no sampling) evaluation of the potential for asbestos-containing materials, lead-based paint, and lead in drinking water.

C. Significant Assumptions, Limitations and Exceptions

Unless noted, Equity assumes that the information obtained through the records review, site inspection, and interviews is correct. Equity does not warrant the accuracy of this information or warrant that any RECs that were not identified through the Phase I process do not exist on the property. RECs do not include De Minimis conditions that do not present a threat to human health or the environment, and that would not be subject to an enforcement action by government agencies.

D. Special Terms and Conditions

No Special Terms or Conditions apply to this project.

E. Reliance

This report is for the use and benefit of Alexandra Levy c/o Ranco Capital LLC. and any of their respective affiliates, agents and advisors.

II. SITE DESCRIPTION

A. Location and Description

The Subject Parcel is identified as 703 Myrtle Avenue in Brooklyn, New York 11205. Title to the property is vested in Alexandra Levy c/o Ranco Capital LLC. The Subject Property is identified as Block 1735 /Lot 39 on the New York City Tax Map. The Subject Parcel is an rectangular shaped lot on Myrtle Avenue. The Subject Property is located in the Bedford neighborhood of Brooklyn, New York.

A USGS Site Location Map and Site Boundary Map are included as Figures 1 and 2 and Appendix A.

B. Site and Vicinity Characteristics

The Subject Property is located in an M1-1 zoning district surrounded by primarily mixed commercial/residential and industrial properties with some public facilities and institutions. M1 districts are often buffers between M2 or M3 districts and adjacent residential or commercial districts. M1 districts typically include light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. Nearly all industrial uses are allowed in M1 districts if they meet the stringent M1 performance standards. Offices, hotels and most retail uses are also permitted. Certain community facilities, such as hospitals, are allowed in M1 districts only by special permit, but houses of worship are allowed as-of-right.

C. Current Use of the Property

The Subject Property is currently used as a parking area and storage yard for a fire suppression installation company (Tristate Steel Fireproofing) as well as an office and showroom for a residential marble installation company (International Stone Collections).

D. Description of Structures, Improvements and Utilities

There are no permanent structures on the Subject Property however, two large trailers and four shipping containers currently exist on the Subject Property. One trailer is used as an office area and showroom for International Stone Collections. Another trailer is used as storage for supplies and garbage for Tristate Steel Fireproofing. The four shipping containers are used as storage for Tristate Steel Fireproofing.

Utilities at the property include the following:

1. Electricity

Electricity is provided by Consolidated Edison of New York (Con Edison).

2. Water

Potable water is not supplied to the Subject Property. No groundwater drinking wells were reported or identified as a result of this assessment.

3. Sewers

There is no sanitary wastewater is discharged on the Subject Property.

4. Heat

The trailer used as an office and showroom is heated by an electric wall mounted heater. There is no natural gas provided on the Subject Property.

E. Current Uses of Adjoining Properties

The following sites adjoin the parcel:

- North – Vacant lot used for parking
- East – Mixed residential and commercial
- South – Mixed residential and commercial
- West – Residential apartment building

III. USER-PROVIDED INFORMATION

The ASTM International Standard defines the "User" as the person on whose behalf the Phase I is being conducted. The ASTM International Standard requires the User to provide site information for the Phase I. Equity was provided with the following information.

- No environmental liens (i.e., legal, deed notice) or Activity and Use Limitations (i.e., engineering controls, etc.) were identified.

- No specialized knowledge or commonly known information regarding current or historical hazardous material use on the Subject Property or adjoining properties, which would be considered a REC, were identified.

- There were no indications that the fair market value of the property was reduced due to environmental concerns.

IV. RECORDS REVIEW

A. Standard Environmental Record Sources

EDR was contracted by Equity to prepare an environmental database survey for the subject site and surrounding areas. A copy of the EDR report, which summarizes the environmental concerns presented by nearby sites, is attached as Appendix C. The listing of a site on any of these databases is, in itself, not indicative of an existing environmental concern. Distance, geology, and groundwater flow gradient are the factors that determine the importance of a listed site to the soil and groundwater quality on the Subject Property. Equity has relied on distance from the listed site and topographical gradient to judge whether that site has the potential to affect the Subject Property.

According to the EDR environmental database search, the TP (Target Property) was not identified on any database. The surrounding properties were identified in the federal and state databases within a one-mile search radius of the Subject Property and are identified as follow:

Database	Target Property	0-1/8 Mile	1/8 – 1/4 Mile	1/4 – 1/2 Mile	1/2 – 1 Mile
RCRA-LQG	0	8	14	-	-
RCRA-VSQG	0	2	2	-	-
RCRA-NonGen/NLR	0	25	65	-	-
EDR Historic Auto	0	6	-	-	-
NY Spills	0	16	-	-	-
NY Manifest	0	37	78	-	-
NY Drycleaners	0	1	1	-	-
NJ Manifest	0	12	24	-	-
NY AST	0	8	11	-	-
NY UST	0	4	15	-	-
NY E Designation	0	39	-	-	-
NY L Tanks	0	3	11	26	-
PA Manifest	0	0	1	-	-
NY VCP	0	4	3	26	-
NY HSWDS	0	0	1	0	-
NY Brownfields	0	1	1	11	-
NY SHWS	0	0	0	4	3

Additional information regarding each of the individual properties identified in the databases listed above is provided in **Appendix C**.

B. Orphans Summary

The EDR Orphan Summary lists twenty (20) properties that were included in certain federal or state environmental databases but were reported by EDR to be unmapped due to insufficient address information. The listing of orphan sites within the database search was reviewed, cross-referencing available address information with facility names. Upon review, it was determined that no orphan sites appear to be associated with the Subject or adjoining properties. Additional information regarding the EDR Orphan Summary Report can be found in **Appendix C.**

C. City Environmental Quality Review "E" Designation

EDR was contracted by Equity to prepare an environmental database survey for the Subject Property and surrounding areas. A copy of the EDR report, includes City Planning Commission approved amendments to the New York City Zoning Map - which may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. The "E" designations shown on the zoning maps function as indicators of the environmental review that must be conducted when the lots are developed in accordance with the regulations of the rezoned district. The City Planning Commission's rezoning actions, including environmental designations, were made effective upon the City Council's approval of the Zoning Map Amendment. Based upon a review of the NYCDEP "E" Designation database July 23, 2020, the Subject Property was not identified.

D. Physical Setting Source

The Subject Property is located in Brooklyn, New York and surrounded by industrial and mixed commercial and residential buildings. The ground surface at the site is predominantly level. Ground cover consists primarily of concrete sidewalk, and a stone parking area with four shipping containers and two trailers. The Subject Property is accessed from the west via Spencer Street. Based on a review of the 2013 USGS Central Park, 7.5-minute topographic map for the area, groundwater is inferred to flow to the northwest toward Wallabout Bay.

Based on the soil survey maps published by the USDA Soil Conservation Service (1994) and information provided in the EDR Report, the subsurface soils expected at the site include Urban Land, which is variable in texture and does not qualify as hydric soil. Urban land soils are those which have lost original characteristics due to human activity (construction, development, demolition, debris, etc.). The geologic age identification of the rock at the Subject Property is of the Mesozoic Era, Cretaceous System, Upper Cretaceous Series, (Code uK). No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed on the Subject Property during this investigation.

E. Historical Use Information on the Property

The historical sources reviewed indicate that the property was developed as early as 1924 as depicted in the historic aerial photographs. Copies of digital Sanborn Fire Insurance Maps are provided in **Appendix D**. Copies of historic aerial photographs are provided in **Appendix E**.

1. Sanborn Fire Insurance Maps

Equity reviewed digital Sanborn Fire Insurance Maps provided by EDR, Inc. ranging from 1888 to 2007. Copies are provided in Appendix D. The following is a summary of the review of these maps.

Year	Subject Property	Surrounding Area
1887	The Subject Property is developed with multiple store fronts.	The surrounding area is developed with residential dwelling units, multiple store fronts, a school, and a lumber yard.
1904	The Subject Property is developed with multiple store fronts.	The surrounding area is developed with residential dwelling units, multiple store fronts, a paperwork's facility, a school, and a coal company.
1918	The Subject Property is developed with multiple store fronts.	The surrounding area is developed with residential dwelling units, multiple store fronts, a barrel storage facility, a school, and multiple printing shops.
1935, 1950, 1965	The Subject Property is developed with multiple store fronts.	The surrounding area is developed with multiple auto repair facilities, residential dwelling units, multiple commercial facilities, warehouses, a printing shop, a metal parts facility, a plumbing facility, parking facilities, a leather facility, storage facilities, a church, a wood working facility, and an electrical company.
1977, 1979, 1980, 1981, 1982, 1984, 1986, 1987, 1989, 1991, 1992, 1993, 1995, 1996,	The Subject Property is undeveloped.	The surrounding area is developed with multiple auto repair facilities, a filling station, multiple commercial facilities, warehouses, a

		plumbing facility, parking facilities, apartments, a leather facility, a water proofing facility, a wood working facility, and an electrical company.
2001, 2002, 2003, 2003, 2004, 2005, 2006, 2007	The Subject Property is developed with a marble works facility.	The surrounding area is developed with multiple auto repair facilities, a filling station, multiple commercial properties, warehouses, a plumbing facility, parking facilities, apartments, a leather facility, and an electrical company.

2. USGS Topographic Maps

Equity reviewed a total of nine (9) historical Topographic Maps provided by EDR, Inc. ranging from 1897 to 2013. No discernable information could be obtained from these maps. Copies are provided in **Appendix E**.

3. Historic Aerial Photographs

Equity reviewed a total of fifteen (15) aerial photographs spanning from 1924 to 2017. The Subject Property is depicted as the current undeveloped lot in aerials from 1951 to 2017 and is consistent with the current shape and size of the Subject Property. The Subject Property is depicted with multiple store fronts in the aerial image from 1924 and is consistent with the digital Sanborn Fire Insurance Maps provided by EDR, Inc. Copies are provided in **Appendix F**.

4. City Directory

Equity reviewed local city directory listings provided by EDR, Inc. from 1928 to 2017 for the subject and adjacent properties. Listings for 703 Myrtle Avenue were residential listings spanning from 1934 to 2017. Listings consisted of a meat market in 1934, 1940, 1945, and 1949; a restaurant in 1965; a stone accessory business in 1999, 2000, 2004, 2005, and 2017; and a pest control business in 2014 and 2017. The area is characterized primarily by commercial, residential, and industrial listings. The City Directory report is included in **Appendix G**.

5. Regulatory File Review

Equity reviewed title information for the Subject Property contained in the New York City Zola database. Title to the property is vested in Alexandra Levy c/o Ranco Capital LLC. The Subject Property is identified as Block1735/Lot 39.

According to the New York City Department of Buildings (DOB) website, five actions have been identified at 703 Myrtle Avenue. The actions are in relation to building alterations and plumbing repairs.

Equity submitted a Freedom of Information Law (FOIL) request to the New York City Department of Environmental Protection (NYCDEP) on July 23, 2020. A response was unavailable prior to the completion of this report. In the event records of environmental concern are identified this report will be amended and stakeholders will be notified.

Regulatory records are included in **Appendix H**.

6. Prior Environmental Assessments and Reports

Equity was not provided with any prior environmental assessments or reports.

F. Historical Use Information on Adjoining Properties

The following information summarizes the historical use of properties adjoining the site based on a review of the Sanborn Fire Insurance Maps and Historic Aerial Photographs.

- North – Vacant lot used for parking
- East – Mixed residential and commercial
- South – Mixed residential and commercial
- West – Residential apartment building

V. SITE RECONNAISSANCE

A. Methodology and Limiting Conditions

John Vrabel, Project Scientist of Equity Environmental, conducted the Phase I site inspection on July 29, 2020. A site representative, Mr. Jake Levy, who is the International Stone Collections manager lead the walkthrough of the Subject Property.

The only limiting condition encountered during the site visit was access to one of the trailers onsite. Access to the trailer used for the storage of supplies and unused materials for Tristate Steel Fireproofing was not provided. According to Mr. Levy the trailer did not contain any materials or equipment that could have potential environmental impacts. Equity does not believe this limiting condition significantly impacts the findings of the site reconnaissance.

B. On-Site Operations/Manufacturing

The Subject property contains two trailers, four shipping containers, and a parking area. One trailer is used as an office and a showroom for International Stone Collections. The other trailer is used as storage for Tristate Steele Fireproofing and was inaccessible. The four shipping containers are used as storage for Tristate Steel Fireproofing. The parking area is used as storage and parking for Tristate Steele Fireproofing vehicles. Photographs of the Subject Property are provided in **Appendix B**.

C. Chemical and Petroleum Use and Storage (USTs, ASTs, and Containers)

Large quantities of Blaze Shield II and Monokote MK-6s were observed in the parking area and inside the shipping containers on the Subject Property. These products are both used by Tristate Fireproofing. Blaze Shield II is an inorganic, environmentally friendly, Portland cement- based formulation that provides fire resistance for structural steel and concrete in commercial construction environments. This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200) and can cause severe skin burns and eye damage, may cause an allergic skin reaction, may cause cancer, and may cause respiratory irritation. All Blaze Shield II products were properly stored and contained in bags on the Subject Property and is not considered a REC.

Monokote MK-6s is a gypsum- based, cementitious fire resistive plaster. Depending on the type of handling and use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable silica dust may cause silicosis. This product may cause cancer and its main route of exposure is inhalation. All Monokote MK-6s products were properly stored and contained in bags inside the shipping containers on the Subject Property and is not considered a REC.

A large mobile generator used by Tristate Fireproofing was observed in the parking area of the Subject Property. No staining or leaking was observed near the generator and it is not considered a REC. One 55-gallon steel drum, one plastic 200-liter drum, and one 475-gallon plastic tote were observed in the parking area of the Subject Property. All three containers were empty and not labeled for a specific product. No staining or leaking was observed near the containers and they are not considered RECs. No USTs, ASTs, or chemicals were found during site reconnaissance.

D. Solid and Hazardous Waste

The solid waste generated onsite is disposed of via the New York City Department of Sanitation trash removal services.

E. Releases or Spills

No staining or spills were observed during the site reconnaissance, and Mr. Levy was not aware of any past spills at the site.

F. Groundwater Wells

No potable, production, irrigation, or monitoring wells were observed or determined through the assessment.

G. Surface Water, Stormwater Drainage and Wastewater Discharge

No stormwater drainage was observed during the site reconnaissance.

H. Wetlands

Equity reviewed National Wetland Inventory maps included as a layer within the EDR Radius Map Report. No wetlands were identified within the Subject Property. The report is provided in **Appendix C.**

I. Polychlorinated Biphenyls (PCBs)

No equipment likely to contain PCBs were observed during the site reconnaissance.

J. Drains and Sumps

No drains or sumps were observed during the site reconnaissance.

K. Vapor Migration/Encroachment

A Vapor Encroachment Screening in accordance with ASTM International E2600-15 was performed by Equity. The EDR Vapor Encroachment database identified multiple VEC (Vapor Encroachment Conditions) of concern within 1/10 of a mile of the Subject Property related to a historic dry cleaner and historic auto garages. There are four total historic auto garages ranging from 120 feet from the Subject Property to 497 feet from the Subject Property. Three of the historic auto garages are at a higher elevation than the Subject Property. There is also one historic cleaner 450 feet from the Subject Property which is at a higher elevation than the Subject Property. According to the local city directory listings provided by EDR, Inc. a pest control business existed on the Subject Property in 2014 and 2017. Based on these findings, a vapor encroachment condition cannot be ruled out. Details on the VECs can be found in Appendix C.

L. Other Environmental Considerations

Asbestos Containing Materials

The EPA banned several types of asbestos in the late 1970s, but its use continued in some building applications through the 1980s. Asbestos was not observed on the Subject Property.

Drinking-Water

Potable water is not supplied to the Subject Property. A drinking water assessment was not performed as part of this study.

Lead-Based Paint

In 1978, EPA banned the manufacture and use of lead-based paint and lead-based paint products. Lead-based paint was not observed.

Mold

A mold assessment was not performed as part of this study. Mold was not observed on the Subject Property.

M. Off-Site Concerns

There were no offsite concerns.

VI. INTERVIEWS

As part of the Phase I of the property, Equity interviewed Mr. Jake Levy, the International Stone Collections manager, during the site reconnaissance. Mr. Levy was not aware of any previous environmental or maintenance issues related to the property.

VII. RECOGNIZED ENVIRONMENTAL CONDITIONS (RECs)

Equity completed the Phase I of the Subject Property in accordance with the scope and limitations of ASTM International Practice 1527-13. Any exceptions to, or deletions from, this practice are noted in appropriate sections of this report. RECs are defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Controlled Recognized Environmental Condition is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Historical RECs are RECs previously remediated to current unrestricted residential use applicable regulatory standards. De Minimis conditions are those that do not present a threat to human health or the environment and would not be the subject of an enforcement action by a government agency. Data Gaps are a lack of or inability to obtain information required by the practice that affects the ability of the environmental professional to identify RECs despite good faith efforts to gather the information.

A. Recognized Environmental Conditions (RECs)

No RECs were identified as a result of this assessment.

B. Controlled Recognized Environmental Conditions (CRECs)

No Controlled RECs were identified as a result of this assessment.

C. Historical Recognized Environmental Conditions (HRECs)

No Historic RECs were identified as a result of this assessment.

D. Vapor Encroachment Concerns (VECs)

The EDR Vapor Encroachment database identified multiple VEC (Vapor Encroachment Conditions) of concern within 1/10 of a mile of the Subject Property related to a historic dry cleaner and historic auto garages. There are four total historic auto garages ranging from 120 feet from the Subject Property to 497 feet from the Subject Property. Three of the historic auto garages are at a higher elevation than the Subject Property. There is also one historic cleaner 450 feet from the Subject Property which is at a higher elevation than the Subject Property. According to the local city directory listings provided by EDR, Inc. a pest control business existed on the Subject Property in 2014 and 2017. Based on these findings, a vapor encroachment condition cannot be ruled out. Details on the VECs can be found in Appendix C.

E. De Minimis Conditions

No, De Minimis Conditions were identified as a result of this assessment.

F. Data Gaps

The only data gap encountered during the site visit was access to one of the trailers onsite. Access to the trailer used for the storage of supplies and unused materials for Tristate Steel Fireproofing was not provided. According to Mr. Levy the trailer did not contain any materials or equipment that could have potential environmental impacts. Equity does not believe this limiting condition significantly impacts the findings of the site reconnaissance. Equity did not identify any other significant data gaps that would affect its ability to identify Recognized Environmental Concerns (RECs) associated with the Subject Property.

Conclusions

Equity's review of available information and observations of the subject and surrounding properties indicates that no RECs, CRECs, Historical RECs, or De Minimis conditions were identified as a result of this assessment. However, a VEC issue cannot be ruled out.

IX. DEVIATIONS

Equity did not deviate from the scope of service outlined in Section I of this report.

X. REFERENCES

The following references were used in the preparation of this report:

1. EDR Environmental Databases
2. Sanborn Fire Insurance Maps
3. Aerial Photographs
4. City Directory
5. Historical Topographic Maps
6. City Databases

7. New York City Department of Buildings Website
8. New York City Zola Database

XI. SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional, as defined in the USEPA All Appropriate Inquiry Standard, 40 CFR, Part 312.10. We have the specific qualifications based on education, training, and experiences to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR, Part 312.

Assessor:



John Vrabel
Project Scientist

Environmental Professional:



Robert Jackson
Managing Director

XII. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the Environmental Professionals are provided in **Appendix I**.

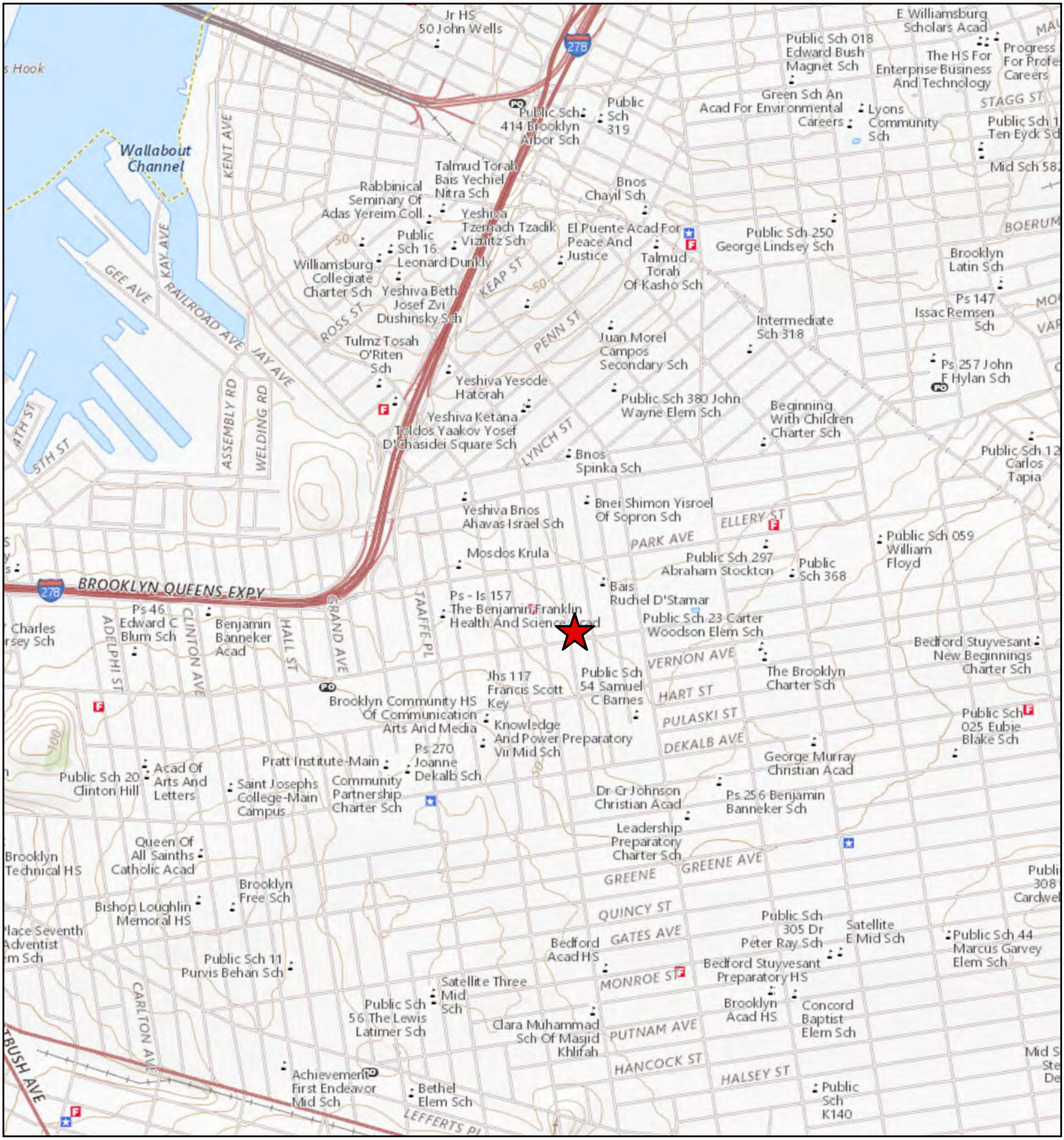
PHASE I ENVIRONMENTAL SITE ASSESSMENT

703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

Appendix A

Figures



Legend

★ 703 Myrtle Avenue

N

0 0.15 0.3 0.6 0.9 Miles

Figure 1
Phase I ESA
USGS Site Location Map

703 Myrtle Avenue
Brooklyn, New York

equity environmental engineering
500 International Drive, Suite 150, Mount Olive, NJ 07828
Office: (973) 527-7451 / Fax: (973) 858-0280

DRAWN BY / DATE	REV / DATE	DRAWING NUMBER
GB/6.19.20		2020060-01



Legend

703 Myrtle Avenue

N

0 30 60 120 180 US Feet

Figure 2
Phase I ESA
Site Boundary Map

703 Myrtle Avenue
Brooklyn, New York

equity environmental engineering
500 International Drive, Suite 150, Mount Olive, NJ 07828
Office: (973) 527-7451 / Fax: (973) 858-0280

DRAWN BY / DATE	REV / DATE	DRAWING NUMBER
GB/6.19.20		2020060-02

PHASE I ENVIRONMENTAL SITE ASSESSMENT

703 Myrtle Avenue
Brooklyn, New York 11205

July 2020

Appendix B

Site Photographs



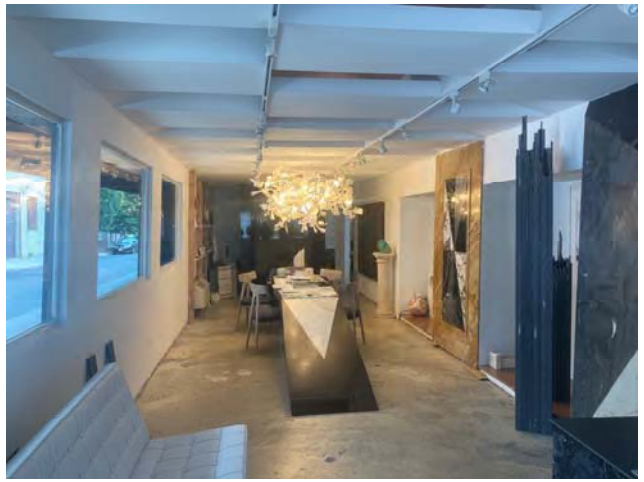
01 View of the Subject Property facing north east.



02 View of the Subject Property entrance off of Spencer Street facing east.



03 View of the office and showroom trailer entrance.



04 View of the marble showroom.



05 View of the four shipping containers used for storage on the Subject property.



06 View of the parking area on the Subject Property. The inaccessible trailer can be seen in the background.



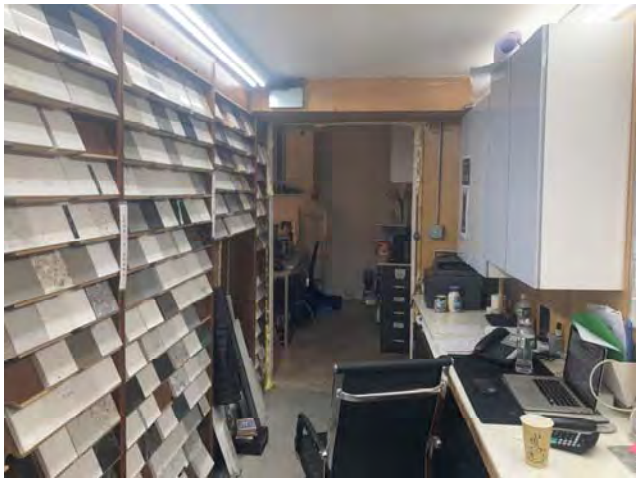
07 View inside a shipping container on the Subject Property containing various supplies for fire suppression installation.



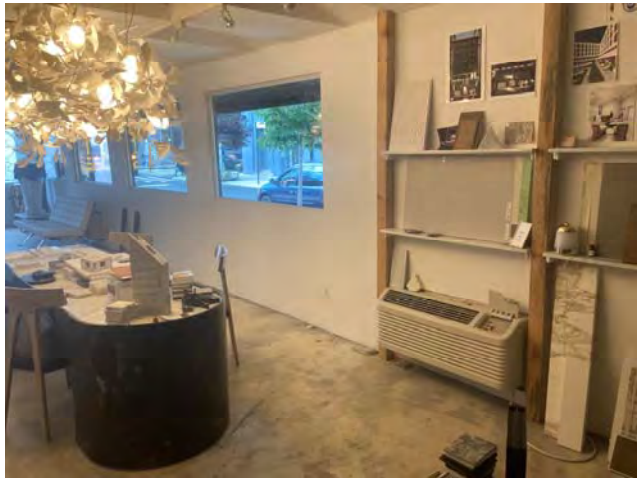
08 View inside a shipping container on the Subject Property containing Monokote.



09 View of the Con Ed service box.



10 View inside the office trailer on the Subject Property.



11 View inside the marble showroom with an electric heating and cooling unit seen on the wall..



12 View of Blaze Shield II storage in the parking area on the Subject Property..



13 View of a generator stored in the parking area of the Subject Property.



14 View of an empty and unlabeled drum found in the parking area on the Subject Property.



15 View of an empty and unlabeled 275 gallon tote in the parking area on the Subject Property.



16 View of an empty 200 liter plastic drum in the parking area on the Subject Property. Previous contents are unknown.

Appendix D: Industrial Processing Emissions Permits

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Vincent Sapienza, P.E.
Commissioner

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

CERTIFICATE TO OPERATE

PREMISES ADDRESS: CONTROL ELECTRO POLISHING, 109 WALWORTH STREET, Brooklyn, NY 11205

OWNER Information: CONTROL ELECTROPOLISHING CORP , 109 WALWORTH STREET BROOKLYN NY 11205

Installation #: **PA031197**
Issued: **3/21/2018**
Expiration: **5/23/2021**
Request ID: **229507**

Legalization: Yes

Environmental Rating: B

Emission Point: 8

Operational Hours/day: 8

Days/year: 200

Number of units: 1

ACFM/Unit: 4750

Contaminant(s): PM

Control(s): Filter

Description: Filter in exhaust duct system on the roof.

Installation Type: Other Industrial Sources

Equipment Type:

Material Being Processed: Metal
Desc.: 36"X40" alkaline cleaning tanks
2 - Custom
Desc.: 36"X36" pickling tanks
2 - Custom
Desc.: 30"X30" nitric Acid tank
1 - Custom
Desc.: Water rinse tanks
3 - Custom

Description of Process:

Cleaning, pickling and electropolishing of metal parts. Solvents include contaminates of caustic Soda, nitric acid, hydrochloric acid.

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

PA031197

R. Radhakrishnan, P.E.
Director of Engineering/For the Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Vincent Sapienza, P.E.
Commissioner

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

CERTIFICATE TO OPERATE

PREMISES ADDRESS: CONTROL ELECTRO POLISHING, 109 WALWORTH STREET, Brooklyn, NY 11205

OWNER Information: NANCY ZAPATA, 109 WALWORTH STREET BROOKLYN NY 11205

Installation #: **PA166773**
Issued: **3/21/2018**
Expiration: **5/23/2021**
Request ID: **229505**

Legalization: Yes

Environmental Rating: B

Emission Point: 5

Operational Hours/day: 8

Days/year: 200

Number of units: 1

ACFM/Unit: 10500

Contaminant(s): PM

Control(s): Filter

Description: Filter in exhaust duct on the roof

Installation Type: Other Industrial Sources

Equipment Type:

Material Being Processed: Metal
Desc.: 6'X10' Steam Heated Electro polishing Tank.
1 - Custom

Description of Process:

This process includes electro-polishing, pickling, and cleaning of metal parts. The solvent includes contaminants of phosphoric acid, sulfuric acid

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

PA166773

R. Radhakrishnan, P.E.
Director of Engineering/For the Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Vincent Sapienza, P.E.
Commissioner

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

CERTIFICATE TO OPERATE

PREMISES ADDRESS: CONTROL ELECTRO POLISHING, 109 WALWORTH STREET, Brooklyn, NY 11205

OWNER Information: CONTROL ELECTROPOLISHING CORP, 109 WALWORTH STREET BROOKLYN NY 11205

Installation #: **PA166873**
Issued: **3/21/2018**
Expiration: **5/23/2021**
Request ID: **229509**

Legalization: Yes

Environmental Rating: B

Emission Point: 1

Operational Hours/day: 8

Days/year: 200

Number of units: 1

ACFM/Unit: 15750

Contaminant(s): Other - Alkaline Mist

Control(s):

Description: Roof type exhaust blower

Installation Type: Other Industrial Sources

Equipment Type:

Material Being Processed: Metal
Desc.: 4'X10' steam heated alkaline cleaning (soap) tanks, using steam from boiler
2 - Tanks

Description of Process:

This process includes electro cleaning, cleaning and electro polishing of metal parts. Two metal cleaning soap tanks are heated through steam from the existing boiler. Soap solution is an alkaline solution.

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

PA166873

R. Radhakrishnan, P.E.
Director of Engineering/For the Commissioner

Vincent Sapienza, P.E.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

CERTIFICATE TO OPERATE

PREMISES ADDRESS: KINGS COUNTY AB, 168 WALWORTH STREET, Brooklyn, NY 11205

OWNER Information: KINGS COUNTY AUTO BODY, 168 WALWORTH STREET BROOKLYN NY 11205

Installation #: **PB013906**
Issued: **7/26/2019**
Expiration: **6/6/2022**
Request ID: **268322**

Legalization: Yes

Environmental Rating: B

Emission Point: 1

Operational Hours/day: 6

Days/year: 250

Number of units: 1

ACFM/Unit: 10000

Contaminant(s): VOC, PM

Control(s): Filter

Description: Replaceable Fiberglass Filters.

Installation Type: Spray Booth / Spray Area

Equipment Type: SPRAY BOOTH

SIAMA # 2000
Type: DOWNDRAFT
Article(s) Sprayed: AUTOMOBILE
Opening Height (ft): 9
Opening Width (ft): 13
Floor Area (ft2): 312

Description of Process:

Auto paint spraying.

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

PB013906

Kit Liang

Kit Liang, P.E.
Director of Engineering

Vincent Sapienza, P.E.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

CERTIFICATE TO OPERATE

PREMISES ADDRESS: KINGS COUNTY AB, 168 WALWORTH STREET, Brooklyn, NY 11205

OWNER Information: KINGS COUNTY AUTO BODY,INC., 168 WALWORTH STREET BROOKLYN NY 11224

Installation #: **PB017407**
Issued: **7/26/2019**
Expiration: **6/6/2022**
Request ID: **268324**

Legalization: Yes

Environmental Rating: B

Emission Point: 2

Operational Hours/day: 8

Days/year: 250

Number of units: 1

ACFM/Unit: 10000

Contaminant(s): VOC, PM

Control(s): Filter

Description: Fiberglass Filters.

Installation Type: Spray Booth / Spray Area

Equipment Type: PREP STATION

Siama Accuprep 3000 ODLD
Type: SEMI-DOWNDRAFT
Article(s) Sprayed: AUTOMOBILE
Opening Height (ft): 9
Opening Width (ft): 19.4
Floor Area (ft2): 260

Description of Process:

Auto Body sanding and priming.

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

PB017407

Kit Liang

Kit Liang, P.E.
Director of Engineering

NYC Environmental Protection

Emily Lloyd
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595-3855

FCO Rev 05/2014

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

TRIENNIAL CERTIFICATE OF OPERATION

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

☒PA ☐PB Application	Date Inspected	Date Issued	Expiration Date	E.P. #	E.R.	Issued By
0311-97R	06/16/15	06/16/15	05/23/18	8	B	MT

Professional Engineer:

Owner:
Control Electropolishing Corp.
109 Walworth street
Brooklyn, N.Y. 11205

APPLICATION FOR RENEWAL OF THIS CERTIFICATE OF OPERATION MUST BE FILED AT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION **NO LATER THAN NINETY (90) DAYS PRIOR TO ITS EXPIRATION DATE.**

Premise Information:

Street Address	Name of Premise (if any)	Floor	Room No.	Borough	Zip Code	BIN	Block	Lot
109 Walworth street	-	1st	-	Brooklyn	11205	-	-	-

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of a Certificate of Operation from one location to another or from one piece of equipment to another automatically revokes the Certificate. Section 24-135 NYC Air Pollution Code.

Description of Installation:	USED: Hours / Day:	Days / Year:
Cleaning of Metal Parts	8.0	200

Description of Equipment: (2) 36" X 40" Alkaline cleaning tanks; (1) 30" x 40" x 54" Nitric Acid tank; (2) 36" X36" Pickling tanks; and (3) water rinse tanks.

Exhaust Equipment: (1) 20"dia. "Deidan" exhaust fan with 5hp motor, 1150rpm, delivering 4,750cfm @70F.

Control Equipment: None.

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source(s) prior to the expiration of this Triennial Certificate of Operation.

SPECIAL CONDITIONS / REMARKS

Exhaust fan must be in operation, during metal cleaning process.

RECERTIFICATION

R. Radhakrishnan

R. Radhakrishnan, P.E.
Director of Engineering / For the Commissioner

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

APC - 5PA
(Rev. 1/76)

INSPECTION SET

The City of New York

ENVIRONMENTAL PROTECTION ADMINISTRATION
DEPARTMENT OF AIR RESOURCES
120 WALL STREET, NEW YORK, N. Y. 10005
BUREAU OF ENGINEERING
PROCESS EXHAUST OR VENTILATION SYSTEM
APPLICATION FOR CERTIFICATE OF OPERATION

1736 BLOCK | 1 LOT | M1-1 ZONING
(By Applicant)

PLEASE PRINT OR TYPE

SECTION A

1. COMPANY NAME: Control Electro Polishing Corp.

10. NAME OF P.E.: Stanley Wald

11. TELEPHONE: 763-2596

19. FACILITY NAME (IF DIFFERENT FROM COMPANY NAME): same

2. NUMBER AND STREET ADDRESS: 109 Walworth Street

12. NUMBER AND STREET ADDRESS: 2316 E.64 St.

20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): same

3. TOWN OR BORO: Brooklyn | 4. STATE: NY | 5. ZIP: 11205

13. TOWN OR BORO: Bklyn | 14. STATE: NY | 15. ZIP: 11234

21. BORO: same | 22. ZIP: same

6. OWNER CLASSIFICATION: A ☐ COMMERCIAL C ☐ UTILITY E ☐ STATE F ☐ MUNICIPAL H ☐ HOSPITAL I ☐ RESIDENTIAL B ☒ INDUSTRIAL D ☐ FEDERAL G ☐ EDUC. INST. J ☐ OTHER

16. application includes: A. ☐ NEW EQUIP'T C. ☐ EXISTING EQUIP'T ONLY B. ☐ MODIFICATION

23. BLDG. NAME OR NUMBER: same | 24. FLOOR NAME OR NUMBER: 1st

7. OWNER OR OFFICER'S NAME: Nancy Zappata | TITLE: Pres.

8. OWNER OR OFFICER'S SIGNATURE: Nancy Zappata | 9. TELEPHONE: 718-858-6634

"I hereby affirm under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief, and that the equipment and/or apparatus concerned will be installed, altered and operated in accordance with the requirements of the NYC Air Pollution Control Code. I hereby authorize the P.E. named herein to file this application on my behalf. I hereby acknowledge that false statements are punishable as a Class A misdemeanor pursuant to Section 1401.2-15.3% of the NYC Air Pollution Control Code and Section 210 45 of the Penal Law."

I hereby certify to the best of my knowledge and belief to the accuracy of the technical information contained in this application, plans and any supplementary data submitted.

PLACE SEAL ABOVE

17. NYS P.E. Lic. NO.: 36068

18. SIGNATURE OF PROFESSIONAL ENGINEER: Stanley Wald

25. DATE APPLICATION RECEIVED: - / /

26. IDENTIFICATION #:

27. DATE APPLICATION REVIEWED: 08 / 20 / 97

28. APPLICATION INCLUDES: A. ☒ NEW EQUIP'T C. ☐ EXISTING EQUIP'T ONLY B. ☐ MODIFICATION

ASSIGN NYC - DAR PREMISES I.D. NO. AND SOURCE EM. PT. NO. IN SECTION B

FEE: $ 280 DATE OF RECEIPT ____ / ____ / 19____

RECEIPT # ____ CASHIER ____

NO WORK PERMIT WILL NOT BE ISSUED UNLESS:
(a). INSTALLER IS NAMED AND
(b). WORKMEN'S COMP. & DISABILITY ARE ON FILE WITH DAR

FINAL APPROVAL OF THE INSTALLATION IN THE FORM OF A CERTIFICATE OF OPERATION WILL NOT BE ISSUED UNTIL COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF LAW, RULE AND REGULATION OF THE N.Y.C. AIR POLLUTION CONTROL CODE HAS BEEN VERIFIED AT THE INSTALLATION SITE BY A REPRESENTATIVE OF THE DEPARTMENT.

"I hereby certify that upon approval of this application, plans and any supplementary data, I will make the installation of and adjustments to the equipment and/or apparatus described herein."

Installer's Signature: _____

Company Name of Installer: Legalize | Installer's Name: _____ | Title: _____

Company Address: _____ | Town or Boro: _____ | State: _____ | Zip: _____

29. Conditions of Work Permit:
a) PROPOSED DEVIATION FROM APPROVED APPLICATION MUST BE OF FILING OF AMENDMENT, AND APPROVAL BY DAR.
b) STACK TEST REQUIRED YES ☐ NO ☐
c) APPROVAL OF THIS APPLICATION DOES NOT IN ANY WAY ALTER, AFFECT OR CHANGE THE REQUIREMENT(S) FOR OTHER LICENCES OR PERMITS AS MAY BE REQUIRED BY OTHER GOVERNMENTAL AGENCIES AND DEPARTMENTS.
APPROVED FOR WORK PERMIT ONLY:

by Head, Industrial Processes Section

by Director of Engineering

FOR AGENCY USE ONLY

29 LOCATION CODE	30 FACILITY ID NO	31 U T M (E)	32 U T M (N)	33 SIC NUMBER	WORK PERMIT 37. DATE ISSUED	38. DATE EXPIRES
					9/18/97	3/18/98

C.O. APPROVED
41. DATE ISSUED | CT. LA. | DATE
/ / | / / | / /

P No. /Yr. 2252/97

Date / / FDNY TO NYS - DEP

SECTION B

43) SPRAY BOOTHS: (FURNISH DATA &/OR CHECK APPROPRIATE BOXES)

Mfr.	Model	Frontal opening: Height & Width	Baffles: Single	Baffles: Triple	Filters	Water wash
A.	B.	C. D.	E.	F.	G.	H.

Handgun	Automatic	Air atomizing	Airless	Electrostatic	Coating Mat'l	50. Air Rate Max. ___ Cubic Ft. ___ Hrs /Day	P. Odor Yes ___ No ___
I.	J.	K.	L.	M.	N.		

(CONTINUED ON OTHER SIDE)

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

A311-91R

LOCATION / FACILITY / EMISSION POINT: 61 / 0000X / 23 / 10008

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

SECTION A

1. NAME OF OWNER / FIRM: Control Electro Polishing Corp.
2. NUMBER AND STREET ADDRESS: 109 Walworth Street
3. CITY - TOWN - VILLAGE: Brooklyn
4. STATE: NY
5. ZIP: 11205
6. OWNER CLASSIFICATION: A. ☐ COMMERCIAL B. ☒ INDUSTRIAL C. ☐ UTILITY D. ☐ FEDERAL E. ☐ STATE F. ☐ MUNICIPAL G. ☐ EDUC. INST. H. ☐ HOSPITAL I. ☐ RESIDENTIAL J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Nancy Zappatta, Pres.
8. TELEPHONE: 718-858-6634
9. NAME OF AUTHORIZED AGENT: Stanley Wald, P.E.
10. TELEPHONE: 718-763-2596
11. NUMBER AND STREET ADDRESS: 2316 East 64th Street
12. CITY - TOWN - VILLAGE: Brooklyn
13. STATE: NY
14. ZIP: 11234
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Stanley Wald, P.E.
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 36068
17. TELEPHONE: 718-763-2596
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)
21. CITY - TOWN - VILLAGE
22. ZIP
23. BUILDING NAME OR NUMBER
24. FLOOR NAME OR NUMBER: 1st
25. START UP DATE: MO 8 / YR 97
26. DRAWING NUMBERS OF PLANS SUBMITTED: A2678
27. PERMIT TO CONSTRUCT: A. ☒ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE B. ☐ MODIFICATION C. ☐ EXISTING SOURCE

SEC. B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
I000 8	25	6	25	20	70	36	4750

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON Winter	Spring	Summer	Fall
1201	8	200	25	25	25	25

SEC. C

41. DESCRIBE PROCESS OR UNIT

1. (5) Tanks used for Cleaning & Pre-Treatment of Metal Parts - (1) 36"x4)" Electro Cleaning Tank, EN# 2359
2.
3. (!) 30"x54" Nitric Acid Tank, (2) 36"x36" Pickling Tank and (1) 30"x40" Electro Cleaning Tank.
4.
5. (Job Plating Shop)
6.
7.
8.

SEC. D

42. EMISSION CONTROL EQUIPMENT I.D.	43. CONTROL TYPE	44. MANUFACTURER'S NAME AND MODEL NUMBER	45. DISPOSAL METHOD	46. DATE INSTALLED MONTH / YEAR	47. USEFUL LIFE
01	99	20" Deidan Exhauster 5HP		/	
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Emissions from tanks consist of traces of Sodium Hydroxide, Nitric Acid, Hydrochloric Acid and Water Vapor not exceeding .001#/hr.

N
E

SECTION F

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) 10^n	ANNUAL EMISSIONS (LBS/YR) PERMISSIBLE
54. Sodium Hydroxide	55. 01310-73-2	56.	57.	58. C	59. .001	60. 94	61. 4	62. 0.001	63. 0	64. .001	65. .001	66. 1.6	67. 0	68. 1.6
69. Nitric Acid	70. 07697-37-2	71.	72.	73. B	74. .001	75. 94	76. 4	77. 0.001	78. 0	79. .001	80. .001	81. 1.6	82. 0	83. 1.6
84. Hydrochloric Acid	85. 07647-01-0	86.	87.	88. B	89. .001	90. 94	91. 4	92. 0.001	93. 0	94. .001	95. .001	96. 1.6	97. 0	98. 1.6
99. Water Vapor	100. 07732-18-5	101.	102.	103. D	104. .001	105. 94	106. 4	107. 0.001	108. 0	109. .001	110. .001	111. 1.6	112. 0	113. 1.6
114.	115. - -	116.	117.	118.	119.	120.	121.	122.	123.	124.	125.	126.	127.	128.
129.	130. - -	131.	132.	133.	134.	135.	136.	137.	138.	139.	140.	141.	142.	143.

SECG

SOLID FUEL TYPE	SOLID FUEL TONS / YR	SOLID FUEL % S	LIQUID FUEL TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	LIQUID FUEL % S	GAS TYPE	GAS THOUSANDS OF CF/YR	GAS BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154.

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT

DATE: 7/28/97

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY
		589550	4343471		07/28/97	08/20/97	A. G.

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		280.00

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

*311C

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS:

1. PA 311-97R	2. EN# 2752
3.	4.
5.	6.
7.	8.

AGENCY USE ONLY

Environmental Protection
Emily Lloyd
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595-3655

TCO Rev 05/2014

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

TRIENNIAL CERTIFICATE OF OPERATION

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

☒PA ☐PB Application	Date Inspected	Date Issued	Expiration Date	E.P. #	E.R.	Issued By
1667-73Y	06/16/15	06/16/15	05/23/18	5	C	MT

Professional Engineer:

Owner:
Control Electropolishing Corp.
109 Walworth street
Brooklyn, N.Y. 11205

APPLICATION FOR RENEWAL OF THIS CERTIFICATE OF OPERATION MUST BE FILED AT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION **NO LATER THAN NINETY (90) DAYS PRIOR TO ITS EXPIRATION DATE.**

Premise Information:

Street Address	Name of Premise (if any)	Floor	Room No	Borough	Zip Code	BIN	Block	Lot
109 Walworth street	-	1st	-	Brooklyn	11205	-	-	-

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of a Certificate of Operation from one location to another or from one piece of equipment to another automatically revokes the Certificate. Section 24-135 NYC Air Pollution Code.

Description of Installation:	USED: Hours / Day:	Days / Year:
Electropolishing of Metal Parts	8.0	200

Description of Equipment: (1) 6' X 10' Steam heated Electropolishing tank used for polishing the metal parts.

Exhaust Equipment: (1) 28"dia. "Deidan" exhaust blower with 10hp motor, delivering 10,500cfm @100F.

Control Equipment: None.

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source(s) prior to the expiration of this Triennial Certificate of Operation.

SPECIAL CONDITIONS / REMARKS

Exhaust blower must be in operation, during Metals Electropolishing process.

RECERTIFICATION

R. Radhakrishnan, P.E.
Director of Engineering / For the Commissioner

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

APC - 5PA
(Rev. 1/76)

The City of New York

ENVIRONMENTAL PROTECTION ADMINISTRATION
DEPARTMENT OF AIR RESOURCES
120 WALL STREET, NEW YORK, N. Y. 10005
BUREAU OF ENGINEERING
PROCESS EXHAUST OR VENTILATION SYSTEM
APPLICATION FOR CERTIFICATE OF OPERATION

CP | LOCATION | FACILITY | EMISSION POINT
2 | I 61 | 00 | 73116 | 68 | DPD | 01

1736 BLOCK | 50 LOT | ZONING
(By Applicant)

PLEASE PRINT OR TYPE XX

SECTION A

1. COMPANY NAME: CONTROL ELECTRO POLISHING CORP.
10. NAME OF P.E.: S. WALD
11. TELEPHONE
19. FACILITY NAME (IF DIFFERENT FROM COMPANY NAME)

2. NUMBER AND STREET ADDRESS: 109 WALWORTH STREET
12. NUMBER AND STREET ADDRESS: 2316 E. 64 ST.
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): SAME

3. TOWN OR BORO: BKLYN | 4. STATE: NY | 5. ZIP
13. TOWN OR BORO: BKLYN | 14. STATE: NY | 15. ZIP: 11234
21. BORO | 22. ZIP

6. OWNER CLASSIFICATION
A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE H. ☐ HOSPITAL
B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
F. ☐ MUNICIPAL I. ☐ RESIDENTIAL

23. BLDG. NAME OR NUMBER | 24. FLOOR NAME OR NUMBER: 1

7. OWNER OR OFFICER'S NAME | TITLE

16. application includes:
A. ☐ NEW EQUIP'T C. ☒ EXISTING EQUIP'T ONLY
B. ☐ MODIFICATION

8. OWNER OR OFFICER'S SIGNATURE | 9. TELEPHONE

I hereby certify to the best of my knowledge and belief to the accuracy of the technical information contained in this application, plans and any supplementary data submitted.

PLACE SEAL ABOVE

"I hereby affirm under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief, and that the equipment and/or apparatus concerned will be installed, altered and operated in accordance with the requirements of the NYC Air Pollution Control Code. I hereby authorize the P.E. named herein to file this application on my behalf. I hereby acknowledge that false statements are punishable as a Class A misdemeanor pursuant to Section 1403.2-15.25 of the NYC Air Pollution Control Code and Section 210.45 of the Penal Law."

17. NYS P.E. Lic. NO.: 36068
18. SIGNATURE OF PROFESSIONAL ENGINEER

WORK PERMIT WILL NOT BE ISSUED UNLESS:
(a) INSTALLER IS NAMED AND
(b) WORKMEN'S COMP. & DISABILITY ARE ON FILE WITH DAR

25. DATE APPLICATION RECEIVED: / /
26. IDENTIFICATION #
27. DATE APPLICATION REVIEWED: / /
28. APPLICATION INCLUDES:
A. ☐ NEW EQUIP'T C. ☒ EXISTING EQUIP'T ONLY
B. ☐ MODIFICATION

ASSIGN NYC - DAR PREMISES I.D. NO. AND SOURCE EM. PT. NO. IN SECTION B

FEE: $_____ DATE OF RECEIPT _____ 19____

RECEIPT # _____ CASHIER _____

FINAL APPROVAL OF THE INSTALLATION IN THE FORM OF A CERTIFICATE OF OPERATION WILL NOT BE ISSUED UNTIL COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF LAW, RULE AND REGULATION OF THE N.Y.C. AIR POLLUTION CONTROL CODE HAS BEEN VERIFIED AT THE INSTALLATION SITE BY A REPRESENTATIVE OF THE DEPARTMENT.

"I hereby certify that upon approval of this application, plans and any supplementary data, I will make the installation of and adjustments to the equipment and/or apparatus described herein."

Installer's Signature _____

Company Name of Installer: MBC INDUSTRIES | Installer's Name _____ | Title _____

Company Address: 15 MIDDLE AVE. | Town or Boro: BKLYN | State: NY | Zip _____

40. CONDITIONS OF WORK PERMIT:
a) PROPOSED DEVIATION FROM APPROVED APPLICATION MUST BE BY FILING OF AMENDMENT, AND APPROVAL OF SAME.
b) STACK TEST REQUIRED YES ☐ NO ☐
c) APPROVAL OF THIS APPLICATION DOES NOT IN ANY WAY ALTER, AFFECT OR CHANGE THE REQUIREMENT(S) FOR OTHER LICENCES OR PERMITS AS MAY BE REQUIRED BY OTHER GOVERNMENTAL AGENCIES AND DEPARTMENTS.

APPROVED FOR WORK PERMIT ONLY:

by _____
Head, Industrial Processes Division

by _____
Director of Engineering

FOR AGENCY USE ONLY

29. LOCATION CODE	30. FACILITY ID. NO.	31. U.T.M.(E)	32. U.T.M.(N)	33. SIC NUMBER	WORK PERMIT 37. DATE ISSUED	38. DATE EXPIRES
161000	11668				/ /	/ /

C.O. APPROVAL
41. DATE ISSUED: 4/22/74 | 42. EXPIRATION DATE: 4/22/77

EN No. /Tr.: 2752 1

Date / / COPY TO NYS - DEC

SECTION B

43. SPRAY BOOTHS: (FURNISH DATA &/OR CHECK APPROPRIATE BOXES)

Mfr. A.	Model B.	Frontal opening: Height x Width C. D.	Baffles: Single E.	Baffles: Triple F.	Filters G.	Water Wash H.

Handgun I.	Automatic J.	Air atomizing K.	Airless L.	Electrostatic M.	Coating Mat'l. N.	40. Use Rate Max. ___ Gals./Hr. ___ Hrs./Day	P. Odor Yes _ No _

(CONTINUED ON OTHER SIDE)

SEC B

44. DIP TANKS: Mfr. A.	Model B.	Dimensions: Height x Width x Length C.	Coating Mat'l D.	Use Rate E. Makeup/H Hrs.	F. Odor Yes / No

45. Source Emis. Pt. No.	46. Ground Elevation (Ft.)
0 1 P 0 1	25

48. STACK HT (FT)	49. INSIDE DIAM. (IN.)	50. EXIT TEMP (°F)	51. EXIT VELOCITY (FT/SEC)	52. EXIT FLOW RATE (S C F M)	53. DRAFT TYPE (N / F / S)	54	55. RECEPTOR DISTANCE (FT) TO PREMISES LOT LINE
					☐ ☐ ☐		50

56. Premises Identification No.: 3 1 8 9 3 3 0 0 0 1 0 1 0 1 1 0 1 9 1

NYC - DAR Agency Use Only

SEC C

57. DESCRIBE PROCESS OR UNIT

ALKALINE CLEANING OF STEEL PARTS.
ONE (1) 3'X10' ELECTRICLEANING TANK AND ONE(1) 6'X10' SOAK CLEANER TANK BOTH STEAM HEATED.
AVGE. USE. 40 LB/WK.

58. TOTAL NUMBER OF SIMILAR PROCESSES OR UNITS:

SEC D

CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	FUEL TYPE	FLOW RATE (S C F M)	TEMP (°F)	PRESSURE DROP (IN. H_2O)	HORSE POWER	RPM	EFFICIENCY (%)	HOW DET.					
59. 01	60. BARRY #365 (36")	61.	62. 15750	63. 100	64.	65. 15	66. 675	67.	68.	69.	70.	71.	72.	73.
74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.
359	360	361	362	363	364	365	366	367	368	369	370	371	372	373

SEC E

CALCULATIONS IN DETERMINING INPUT OR PRODUCTION RATE, EMISSION RATE POTENTIAL AND ACTUAL EMISSIONS:

TOTAL OF 100# CAUSTIC REQUIRED TO BE ADDED TO BOTH TANKS /40 Hr. to provide for make up due to dragout & evaporation = 2.5 #/Hr
95% LOSS due to DRAGOUT
5% loss due to EVAPORATION
E.R.P. = .05(2.5) = .125 #/Hr
ALKALINE MIST

SECTION F

CONTAMINANT NAME	%	CODE	INPUT OR PRODUCTION	UNITS	E R P (LBS/HR)	HRS/DAY	DAYS/YR	PROPOSED RATING	ACTUAL EMISSIONS	UNITS	ACTUAL EMISSIONS (LBS/HR)	ACTUAL EMIS. PPM
89. ALKALINE MIST	90.	91. 101	92.	93.	94. 0.125	95.	96.	97. D	98. 2.15	99. %	100. 0.125	100A
104. ~~dust~~ (SODIUM HYDROXIDE)	105.	106.	107.	108.	109.	110.	111.	112.	113.	114.	115.	115A
119.	120.	121.	122.	123.	124.	125.	126.	127.	128.	129.	130.	130A
134.	135.	136.	137.	138.	139.	140.	141.	142.	143.	144.	145.	145A
149.	150.	151.	152.	153.	154.	155.	156.	157.	158.	159.	160.	160A
164.	165.	166.	167.	168.	169.	170.	171.	172.	173.	174.	175.	175A

AGENCY USE ONLY

ENV. RATING	ALLOWABLE EMISSIONS	UNITS
101.	102.	103.
116.	117.	118.
131.	132.	133.
146.	147.	148.
161.	162	163.
176.	177.	178.

PROCESS CODE	APPLICABLE CODE (S)
194.	195.

SEC G

SOLID FUEL TYPE	LBS/HR	%S	OIL TYPE	GPH	%S	GAS TYPE	CFH	BTU/CF	BTU/HR
179.	180.	181.	182.	183.	184.	185.	186.	187.	188.

Note: Application and Plans must be submitted in triplicate.

OP LOCATION FACILITY EMISSION POINT

2 1 6 1 0 0 7 3 1 6 6 8 0 0 0 0 1

NYC Environmental Protection

Emily Lloyd
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595-3655

TCO Rev 05/2014

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

TRIENNIAL CERTIFICATE OF OPERATION

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

☒PA ☐PB Application	Date Inspected	Date Issued	Expiration Date	E.P. #	E.R.	Issued By
1668-73L	06/16/15	06/16/15	05/23/18	1	C	MT

Professional Engineer:

Owner:

Control Electropolishing Corp.
109 Walworth street
Brooklyn, N.Y. 11205

APPLICATION FOR RENEWAL OF THIS CERTIFICATE OF OPERATION MUST BE FILED AT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION **NO LATER THAN NINETY (90) DAYS PRIOR TO ITS EXPIRATION DATE.**

Premise Information:

Street Address	Name of Premise (if any)	Floor	Room No.	Borough	Zip Code	BIN	Block	Lot
109 Walworth street	-	1st	-	Brooklyn	11205	-	-	-

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of a Certificate of Operation from one location to another or from one piece of equipment to another automatically revokes the Certificate. Section 24-135 NYC Air Pollution Code.

Description of Installation:	USED: Hours / Day:	Days / Year:
Cleaning of Metal Parts	8.0	200

Description of Equipment: (2) 4' X 10' Alkaline cleaning (soap) tanks, both tanks are heated by steam from existing boiler.

Exhaust Equipment: (1) 36"dia. Roof type exhaust blower with 15hp motor, delivering 15,750cfm @100F.

Control Equipment: None.

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source(s) prior to the expiration of this Triennial Certificate of Operation.

SPECIAL CONDITIONS / REMARKS

Exhaust blower must be in operation, during metal cleaning process.

RECERTIFICATION

R. Radhakrishnan, P.E.
Director of Engineering / For the Commissioner

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISION OF AIR
WHITE - REGIONAL OFFICE
WHITE - N.Y.C.
YELLOW - APPLICANT

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES

OP LOCATION FACILITY EMISSION POINT
A 1 6 1 0 0 0 0 X 2 3 I 0 0 0 1 I

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

A 1668-73

SECTION A

1. NAME OF OWNER/FIRM	Control Electro Polishing Corp.
2. NUMBER AND STREET ADDRESS	109 Walworth Street
3. CITY - TOWN - VILLAGE	Brooklyn
4. STATE	N.Y.
5. ZIP	11101
6. OWNER CLASSIFICATION	A ☐ COMMERCIAL B ☒ INDUSTRIAL C ☐ UTILITY D ☐ FEDERAL E ☐ STATE F ☐ MUNICIPAL G ☐ EDUC INST H ☐ HOSPITAL I ☐ RESIDENTIAL J ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE	Charles Morla
8. TELEPHONE	858-6634
9. NAME OF AUTHORIZED AGENT	Stanley Wald
10. TELEPHONE	763-2596
11. NUMBER AND STREET ADDRESS	2316 E. 64th Street
12. CITY - TOWN - VILLAGE	Bklyn
13. STATE	N.Y.
14. ZIP	11234
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION	Stanley Wald
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.	36068
17. TELEPHONE	763-2596
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT	
19. FACILITY NAME (IF DIFFERENT FROM OWNER/FIRM)	
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)	
21. CITY - TOWN - VILLAGE	
22. ZIP	
23. BUILDING NAME OR NUMBER	
24. FLOOR NAME OR NUMBER	1st
25. START UP DATE MO / YR	1 / 77
26. DRAWING NUMBERS OF PLANS SUBMITTED	
27. PERMIT TO CONSTRUCT	A ☐ NEW SOURCE B ☐ MODIFICATION
28. CERTIFICATE TO OPERATE	A ☐ NEW SOURCE B ☐ MODIFICATION C ☒ EXISTING SOURCE

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP. (°F)	35. EXIT VELOCITY (FT/SEC)	36. EXIT FLOW RATE (ACFM)	37. SOURCE CODE	38. HRS/DAY	39. DAYS/YR	40. % OPERATION BY SEASON Winter	Spring	Summer	Fall
I 0 0 0 1	25	6	25	36	100	38	15750	1309	8	200	25	25	25	25

SECTION C

41. DESCRIBE PROCESS OR UNIT

1. Exhaust System for (1) 3' x 10' Electro~~xxxxx~~ tank and (1) 6' x 10' Soak cleaner tank cleaning
3. both steam heated.
7. Job Plating Shop

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42. 1	43. 01	44. Barry Fan, model #365 15HP	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

CALCULATIONS

Soak Cleaner Tank capacity 1400 gal. containing 1# of Caustic /gal. water.
Electro Cleaner Tank capacity 700 gal. containing 1# of caustic/gal. water
Both tanks operated at 180 deg. F. (Steam Heated)
Total of 100# of caustic required to be added to both tanks /40 hr. to provide for make up due to dragout and evaporation = 2.5# /hr.

NOTE
5% of loss due to evaporation
ERP = .05 (2.5) = .125# /hr. Alkalinr Mist

SECTION F

54 CONTAMINANT NAME	55 CAS NUMBER	56 INPUT OR PRODUCTION	57 UNIT	58 ENV. RATING	59 EMISSIONS ACTUAL	60 UNIT	61 HOURS PER DAY	62 PERMISSIBLE	63 % CONTROL EFFIC'CY	64 HOURLY EMISSIONS (LBS/HR) ERP	65 ACTUAL	66 ANNUAL EMISSIONS (LBS/YR) ACTUAL	67 10*	68 PERMISSIBLE
Alkaline Mist	NY 104 - 00 - 0			B	.125	1	6	.125	0	.125	.125	200	0	200
69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
84	85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100	101	102	103	104	105	106	107	108	109	110	111	112	113
114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138	139	140	141	142	143

SEC. G

144 SOLID FUEL TYPE	145 TONS/YR	146 %S	147 OIL TYPE	148 THOUSANDS OF GALLONS/YR	149 %S	150 GAS TYPE	151 THOUSANDS OF CF/YR	152 BTU/CF

153 APPLICABLE RULE	154 APPLICABLE RULE
212	

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT [signature] — DATE 1/26/82

AGENCY USE ONLY

156 LOCATION CODE	157 FACILITY ID. NO.	158 U.T.M. (E)	159 U.T.M. (N)	160 SIC NUMBER	161 DATE APPL. RECEIVED	162 DATE APPL. REVIEWED	163 REVIEWED BY
61 0000	X23J	589.5	505.4	3471	2/8/82	5/10/82	P. Goldberg

PERMIT TO CONSTRUCT

164 DATE ISSUED	165 EXPIRATION DATE	166 SIGNATURE OF APPROVAL	167 FEE
/ /	/ /		

168
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

RECOMMENDED ACTION RE: C.O.

169 DATE ISSUED	170 EXPIRATION DATE	171 SIGNATURE OF APPROVAL	172 FEE
4/29/82	4/29/85	P. Goldberg	$180

*311C

173
1. [X] INSPECTED BY P. Goldberg DATE 4/28/82
2. [ ] INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. [X] ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. [ ] APPLICATION FOR C.O. DENIED ____ DATE ____ INITIALED

174. SPECIAL CONDITIONS:
1. PA 1668/73
2. EN-275R
3. Recertification
Paul Goldberg

76-19-3 (10-79)

C-33 pg 5/10/82

DEP Registrations

Installation #:

PB 0139006

NYC Environmental Protection

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595–3855

Rev. 02/11

INDUSTRIAL PROCESSES
FIELD INSPECTION REPORT

Date: 4/24/13

Installation: PB-139-06M

Company Name: KING'S COUNTY AB

Premise Information:

Street Address	Name of Premise (if any)					
168 WALWORTH STREET						
Floor	Room No.	Borough	Zip Code	BIN	Block	Lot
1ST		Brooklyn	11205			

Inspection: 36264

Inspected by:	A. ODUBA	Plant Representative:	SEL KELLMAN		
Emission Point:	1	Receptor Distances:		Nuisance Possibility:	
Equipment Description:	SPRAY BOOTH 13' X 20'				

ANTHONY CONA / MANAGER

Agreement with filing

☑ Yes ☐ No Sketch:

Reason for Inspection:

☐ C.O. ☑ T.C.O. ☐ Complaint ☐ Survey

Conditions Observed: Exhaust working properly

Observed Emissions: No Emissions observed

Comments: ok for C.O.

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor
Flushing, New York 11373-5108
Records Control (718) 595-3855

TRIENNIAL CERTIFICATE EXPIRATION NOTICE

February, 2013

2013 APR 11 A 11:50 21731
Fee $525.00 Receipt No.
B.E.C. Clerk

KINGS COUNTY AB
168 WALWORTH STREET
BROOKLYN, NY 11205

RE: Certificate to operate Industrial Processing Equipment,
E.R.:
ACFM:

INSTALLATION #: PB013906M

EXPIRATION DATE: 6/6/2013

EQUIPMENT LOCATED AT: 168 WALWORTH STREET

COMPLETE AND SIGN THIS RENEWAL APPLICATION FORM AND RETURN IT TO:

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 JUNCTION BOULEVARD
RECORDS CONTROL, 9TH FLOOR
FLUSHING, NY 11373-5108.

INCLUDE YOUR CHECK OR MONEY ORDER PAYABLE TO NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION. RENEW 90 DAYS PRIOR TO EXPIRATION DATE.

PLEASE PROVIDE NAME, ADDRESS AND TELEPHONE NUMBER OF SUPERINTENDENT, CONTRACTOR OR OTHER AUTHORIZED AGENT WHO CAN BE CONTACTED TO SCHEDULE AN INSPECTION, PROVIDE ACCESS AND OPERATE EQUIPMENT TO DEMONSTRATE COMPLIANCE.

Sol Kellman			718-399-9500
SUPERINTENDENT / CONTRACTOR / AGENT			TELEPHONE NUMBER
168 Walworth St, Brooklyn, NY 11205			
STREET ADDRESS	APT. NO.	CITY	STATE ZIP
718-623-2701	KING237@AOL.com		
FAX NUMBER	E-MAIL ADDRESS		

I REQUEST RENEWAL OF THE CERTIFICATE FOR THE EQUIPMENT WHICH IS THE SUBJECT OF THE ABOVE REFERENCED INSTALLATION NUMBER AND WHICH HAS BEEN INSPECTED BY THE OWNER/OWNER'S AGENT AND IS READY FOR INSPECTION BY THE BUREAU OF ENVIRONMENTAL COMPLIANCE.

I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN THE ROOM/AREA WHERE THE EQUIPMENT IS LOCATED, THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE OF DISAPPROVAL WILL BE ISSUED.

I HEREBY AFFIRM UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED ON THIS FORM IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE EQUIPMENT WILL BE OPERATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC AIR POLLUTION CONTROL CODE AND ACKNOWLEDGE THAT ANY ALTERATION OF THE EQUIPMENT WILL BE DONE IN ACCORDANCE WITH THE NYC AIR POLLUTION CONTROL CODE AND APPROPRIATE REQUIREMENTS OF OTHER AGENCIES. I RECOGNIZE THAT FALSE STATEMENTS ARE PUNISHABLE AS A MISDEMEANOR PURSUANT TO SECTION 24-190 OF THE NYC AIR POLLUTION CONTROL CODE AND SECTION 210-45 OF THE PENAL LAW.

PLEASE MAKE ANY CORRECTIONS TO THE OWNER'S NAME AND ADDRESS IF NECESSARY.

DEP COMPUTER ESTIMATED FEE IS: $525.00.
FINAL DEP FEE DETERMINATION WILL BE MADE BY DEP. FEES ARE NON-TRANSFERABLE.

[signature]	PRESIDENT	3/18/13
OWNER/REPRESENTATIVE'S SIGNATURE	TITLE	DATE

IF ALREADY RENEWED, PLEASE DISREGARD THIS LETTER

22

Batch MG

Kings County Auto Body, Inc.

I-CAR TRAINED.

Solomon Kellman

DUPONT



168 Walworth St.
Brooklyn, NY 11205

Phone: (718) 399-9500
Fax #: (718) 623-2701

Emily Lloyd,
Commissioner

Records Control (718) 595-3855

Robert C. Avaltr
Deputy Commissio

11224

INDUSTRIAL PROCESSES SECTION

FIELD INSPECTION REPORT

DATE:	3-17-10
PA / PB #	

1. COMPANY NAME: Kings County Auto Body, inc
2. ADDRESS: 168 Walworth St. BORO BK FLR 1
3. INSPECTED BY: M.T. PLANT REP:
4. EMISSION POINT: 1 RECEPTOR DISTANCES: NUISANCE/POSSIBILITY:
5. EQUIPMENT DESCRIPTION: Auto Paint Spray Booth.
6. AGREEMENT WITH FILING? YES NO SKETCH:
7. REASON FOR INSPECTION: ☐ C.O. ☑ T.C.O. ☐ COMPLAINT ☐ SURVEY
8. CONDITIONS OBSERVED: Equipment Was in Operation.

OBSERVED EMISSIONS: None.

COMMENTS: Filters Downdraft Exhaust System was Working Properly.

O.K. For T.C.O.
M.T.
03-17-10

At Willoughby Ave.

DM 6-20-07

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Emily Lloyd, Commissioner

Robert C. Avaltroni, Deputy Commissioner

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	PB0139806M
Date Inspected:	06-06-07
Date Issued:	
Expiration Date:	06-06-10

E.P.#	1
E.R.	B

P.E.

DONALD FRIEDMANDER P.E.
1091 MILLINBROOK ROAD
STATEN ISLAND N.Y. 10314

OWNER

KINGS COUNTY AUTO BODY
168 WALWORTH STREET
BROOKLYN N.Y. 11205

DEP Premise Address: 168 WALWORTH STREET Flr.#: 1 Boro: BROOKLYN

CERTIFICATE OF OPERATION
(Spray Booth)

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of...a Certificate of Operation ....from one location to another or from one piece of equipment to another automatically revokes the Certificate. Sec. 24-135 NYC Air Pollution Code.

Description of Installation:

Spray Booth(s) Used: 6 Hrs/Day 250 Days/Year

Mfr. SIAMA Model: FLOOR #2000

Frontal Opening Height: 13' Width: 29'

Check Appropriate Items: Filters: ✓ Water Wash: ____ Handgun: ✓ Air Less: ____

Automatic: ____ Single Baffle: ____ Air Atomizing: ✓ Electrostatic: ____

Triple Baffle: ____

Coating Material (Paint etc..): PAINT

Maximum Gallons Per Hour: 0.5 Maximum Gallons Per 8 Hours: 3.0

1. a) Fan Manufacturer: INTEGRAN (SIAMA

Size & Model: 30" DIA

2. b) Operating Conditions: CFM 10,000 @ Temp. F: 75 H.P. 5 RMP ____

SPECIAL CONDITION: **FILTER TO BE REPLACED WHEN CLOGGED.**

Raphael A. Hodge, P.E.,
Director of Engineering

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date.

SHOULD SIGNIFICANT NEW SCIENTIFIC EVIDENCE FROM A RECOGNIZED INSTITUTION RESULT IN A DECISION BY DEC THAT LOWER AMBIENT GUIDELINE CONCENTRATION MUST BE ESTABLISHED, IT MAY BE NECESSARY TO REDUCE EMISSIONS FROM THIS SOURCE PRIOR TO THE EXPIRATION OF THIS CERTIFICATE OF OPERATION

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor
Flushing, New York 11373-5108
Records Control (718) 595-3855

Fee $ 525 Receipt No. 024363

B.E.C. Clerk

TRIENNIAL CERTIFICATE EXPIRATION NOTICE

February, 2010

DEP AIR PERMITTING
2010 FEB 22 A 3:30

KINGS COUNTY AB
168 WALWORTH STREET
BROOKLYN, NY ~~11224~~ 11205

RE: Certificate to operate Industrial Processing Equipment,
E.R.:
ACFM:

INSTALLATION #: PB013906M

EXPIRATION DATE: 6/6/2010

EQUIPMENT LOCATED AT: 168 WALWORTH STREET

COMPLETE AND SIGN THIS RENEWAL APPLICATION FORM AND RETURN IT TO:

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 JUNCTION BOULEVARD
RECORDS CONTROL, 9TH FLOOR
FLUSHING, NY 11373-5108.

INCLUDE YOUR CHECK OR MONEY ORDER PAYABLE TO NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION. RENEW 90 DAYS PRIOR TO EXPIRATION DATE.

PLEASE PROVIDE NAME, ADDRESS AND TELEPHONE NUMBER OF SUPERINTENDENT, CONTRACTOR OR OTHER AUTHORIZED AGENT WHO CAN BE CONTACTED TO SCHEDULE AN INSPECTION, PROVIDE ACCESS AND OPERATE EQUIPMENT TO DEMONSTRATE COMPLIANCE.

Solomon Kellman				718-399-9500
SUPERINTENDENT / CONTRACTOR / AGENT				TELEPHONE NUMBER
168 walworth ST	1	BKLYN	NY	11205
STREET ADDRESS	APT. NO.	CITY	STATE	ZIP
718-~~29~~ 623-2701		King237@AOL.com		
FAX NUMBER		E-MAIL ADDRESS		

I REQUEST RENEWAL OF THE CERTIFICATE FOR THE EQUIPMENT WHICH IS THE SUBJECT OF THE ABOVE REFERENCED INSTALLATION NUMBER AND WHICH HAS BEEN INSPECTED BY THE OWNER/OWNER'S AGENT AND IS READY FOR INSPECTION BY THE BUREAU OF ENVIRONMENTAL COMPLIANCE.

I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN THE ROOM/AREA WHERE THE EQUIPMENT IS LOCATED, THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE OF DISAPPROVAL WILL BE ISSUED.

I HEREBY AFFIRM UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED ON THIS FORM IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE EQUIPMENT WILL BE OPERATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC AIR POLLUTION CONTROL CODE AND ACKNOWLEDGE THAT ANY ALTERATION OF THE EQUIPMENT WILL BE DONE IN ACCORDANCE WITH THE NYC AIR POLLUTION CONTROL CODE AND APPROPRIATE REQUIREMENTS OF OTHER AGENCIES. I RECOGNIZE THAT FALSE STATEMENTS ARE PUNISHABLE AS A MISDEMEANOR PURSUANT TO SECTION 24-190 OF THE NYC AIR POLLUTION CONTROL CODE AND SECTION 210-45 OF THE PENAL LAW.

PLEASE MAKE ANY CORRECTIONS TO THE OWNER'S NAME AND ADDRESS IF NECSSARY.

DEP COMPUTER ESTIMATED FEE IS: $525.00.
FINAL DEP FEE DETERMINATION WILL BE MADE BY DEP. FEES ARE NON-TRANSFERABLE.

	Manager	2-10-10
OWNER/REPRESENTATIVE'S SIGNATURE	TITLE	DATE

IF ALREADY RENEWED, PLEASE DISREGARD THIS LETTER

2-16-10

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Emily Lloyd, Commissioner

Robert C. Avaltroni, Deputy Commissioner

INDUSTRIAL PROCESSES SECTION

FIELD INSPECTION REPORT

718 394 9500
347 693 7210

DATE:	6/6/07
~~BA~~ / PB #	139-06M

1. COMPANY NAME: KINGS COUNTY AUTO BODY
2. ADDRESS: 168 WALWORTH ST BORO BKLYN FLR
3. INSPECTED BY: A. ODUBA PLANT REP: SOLOMON IGELNIKA OWNER
4. EMISSION POINT: RECEPTOR DISTANCES: NUISANCE/POSSIBILITY:
5. EQUIPMENT DESCRIPTION: ONE SPRAY BOOTH SVE Sprinklers in the Booth
6. AGREEMENT WITH FILING? YES NO SKETCH:
7. REASON FOR INSPECTION: [X] C.O. [ ] T.C.O. [ ] COMPLAINT [ ] SURVEY
8. CONDITIONS OBSERVED: Exhaust working properly
9. OBSERVED EMISSIONS: No Emission observed at this time
10. COMMENTS:

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
Records Control (718) 595 - 3855

Christopher O. Ward, Commissioner

Robert C. Avaltroni, Deputy Commissioner

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA/ PB#	PB013906M
Date Mailed	06-07-06
Date Issued	06-05-06
Expiration Date	12-05-06

E.P.#	1
E.R.	B

P.E.
DONALD FRIEDLANDER P.E.
1091 WILLOWBROOK ROAD
STATEN ISLAND N.Y. 10314

OWNER
KINGS COUNTY AB
168 WALWORTH STREET
BROOKLYN N.Y. 11224

DEP Premise Address: 168 WALWORTH STREET Flr.#: 1 Boro: BROOKLYN

NOTICE OF APPLICATION / PLANS APPROVAL
WORK PERMIT - SPRAY BOOTH

○ We are pleased to advise you that your application for legalization of the existing installation has been approved. One set of the approved plans is returned herewith.

○ We are pleased to advise you that your application for a Work Permit for the new installation/alteration has been approved. One set of approved plans is returned herewith.

DESCRIPTION OF INSTALLATION: Spray Booth (s) Used: ✓ Hrs/Day 6 Quantity: ONE Days/Yr: 250

Mfr. WELBILT Model: FLOOR #M2000

Frontal Opening Height: 13' Width: 29'

Check Appropriate Items: Filters: ✓ Water Wash: Handgun: ✓ Air Less:
Automatic: Single Baffle: Air Atomizing: ✓ Electrostatic:
Triple Baffle:

Coating Material (Paint etc...) PAINT

Maximum Gallons per Hour: 0.5 Maximum Per 8 Hours: 3.0

a) Fan Manufacturer: WELBILT INTEGRAL
Size & Model: 30" DIA.

b) Operating Conditions: CFM: 11500 @TEMP. F.: 75 H.P.: RPM.:

This permit shall not be transferred from one premise to another, from one location to another, from one installation to another; and may be revoked anytime pursuant to New York City Air Pollution Control Code. The proposed installation or alteration shall be completed in conformity with the approved application and plans.

To obtain a Certificate of Operation, a written request for an inspection must be made to this Division and accompanied by a fee per LL55/80 within thirty (30) days after receipt of approval for legalization, or completion of a new or altered installation. This permit is issued pursuant to a certification by the professional engineer of record, acting as designated agent for the equipment owner, that all documents submitted in connection with this application are completed and fully with all applicable laws, code, rules, regulations, and directives of the Department of Environmental Protection of the City of New York in effect at the time filed.

Installer

LEGALIZATION

Raphael A. Hodge, P.E.,
Director of Engineering
For the Commissioner

APC 137SB (REV. 9/02)

Ar 355

CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF AIR, NOISE & HAZARDOUS MATERIALS
59-17 JUNCTION BOULEVARD, CORONA, NEW YORK 11368
AIR PERMITTING, 9TH FLOOR

DEP AIR PERMITTING
2007 JUN -1 P 1:36

Fee $ 60 Receipt No. 608740
B.E.C. Clerk

AMENDMENT DEP AIR PERMITTING
(TO BE TYPED OR PRINTED) PAGE 1 OF 2
2007 JUN
INSTALLATION: PB013906M
DATE: 5/24/07

PREMISE ADDRESS: 168 WALWORTH ST. BKLyn
BORO

ANSWERS TO THE DISAPPROVAL SHOULD BE MADE BELOW. THIS AMENDMENT IS TO BE MADE PART OF THE ORIGINAL PLANS AND IS SUBJECT TO ALL THE CONDITIONS, AGREEMENTS AND STATEMENTS CONTAINED THEREIN. RETURN THIS COMPLETED FORM TO THE BUREAU OF AIR NOISE & HAZARDOUS MATERIALS AT THE ADDRESS ABOVE.

IF MORE SPACE IS NEEDED ADDITIONAL SHEETS MUST BE USED. NO ITEM CAN BE CONTINUED OVER TO ANOTHER SHEET; EACH ITEM MUST BE COMPLETE ON THE SHEET ON WHICH IT APPEARS. ONLY THOSE ITEMS THAT APPEAR ABOVE THE ENDORSEMENT AT THE BOTTOM OF THE PAGE CAN BE CONSIDERED.

1- MFGR & MODEL # OF BOOTH HAS CHANGED.

BOOTH IS SIAMA # 2000. CFM IS 10,000

2- $60 AMENDMENT FEE IS ATTACHED

P.E. OR R.A.	
NAME	~~DONALD FRIEDLANDER, P.E.~~ CONSULTING ENGINEERS
STREET ADDRESS	~~1091 WILLOWBROOK ROAD~~ STATEN ISLAND, N. Y. 10314
CITY / STATE / ZIP CODE	

P.E. OR R.A. SEAL & SIGNATURE

LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

FOR DEPARTMENT USE ONLY

FEE ENCLOSED: $ _____ ON _____ DATE

AMENDMENT ☐ APPROVED

☐ DISAPPROVED BY: _____

COPY 2 OF 2

AP 356
(REV. 11/96)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOEL A. MIELE, SR., P.E. Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air, Noise & Hazardous Materials

INSPECTION REQUEST
(TO BE TYPED OR PRINTED)

DEP AIR PERMITTING

Date: 5-24-07

(Please Check One)
CERTIFICATION X
RECERTIFICATION ___

2007 JUN -1 P 1:36

FEE ENCLOSED: $ 525.00 APPLICATION #: PB 013906M

Premise Address: 168 WALWORTH ST. Boro: BKLYN

I AM REQUESTING: X An Inspection or
___ A Re-Inspection at the above Referenced Address.

I CERTIFY THAT ALL WORK ON THE ABOVE INSTALLATION HAS BEEN COMPLETED IN ACCORDANCE WITH AN APPROVED APPLICATION, PLANS AND AMENDMENT (S). THE EQUIPMENT IS OPERATING PROPERLY AND IS READY FOR FINAL INSPECTION BY DEP. I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN THE ROOM / AREA WHERE THE EQUIPMENT IS LOCATED THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE OF DISAPPROVAL WILL BE ISSUED.

IF THIS IS A REQUEST FOR A RE-INSPECTION: I CERTIFY THAT ALL DEFICIENCIES WHICH RESULTED IN THE ISSUANCE OF AN INSTALLATION DISAPPROVAL HAVE BEEN CORRECTED AS SET FORTH BELOW:

NOTE: COMPLETE THE FOLLOWING, ITEM BY ITEM. A RE-INSPECTION WHICH DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION MAY SUBJECT THE APPLICATION TO CANCELLATION.

DEP AIR PERMITTING
2007 JUN -1 P 1:36

Fee $ 525 Receipt No. 008739
B.E.C. Clerk

[signature]
SIGNATURE
(IF LEGALIZATION: P.E. SIGNATURE)

P.E
TITLE

718-698-7575
TELEPHONE NUMBER

LEGALIZATION
INSTALLER'S NAME (P.E., R.A.'S NAME)

KINGS COUNTY AUTO BODY
OWNER'S NAME

STREET ADDRESS

168 WALWORTH ST.
STREET ADDRESS

CITY STATE ZIP CODE

BKLYN NY 11224
CITY STATE ZIP CODE

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

Date: 3-29-06

(Installation Number)

(EN Number)

Re: 168 WALWORTH ST. BKLYN
(Premise Address) (Boro)

PROFESSIONAL CERTIFICATION

Being duly mindful of my responsibilities as a Licensed Professional Engineer in the State of New York and acting as Designated Agent for the applicant, I hereby certify that the application, plans and all supplementary documents submitted in connection with this filing are complete and fully comply with all applicable laws, codes, rules, regulations and directives of the Department of Environmental Protection, Bureau of Air, Noise & Hazardous Materials of the City of New York in effect at the time filed.

LICENSED PROFESSIONAL ENGINEER
DONALD VERBRANDER
046665
STATE OF NEW YORK

P.E. Seal & Signature

FOR DEP USE ONLY	INSPECTION SET

Company Name of Installer: _____

Company Address: _____

Town or Boro _____ **State:** _____ **Zip:** _____

Installer's Name: _____ **Title:** _____

Installer's Signature: _____

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

INDUSTRIAL PROCESSES DIVISION
ENVIRONMENTAL RATING REPORT
SUMMARY OF POINTS OF EMISSION

EN NO. _____

Premise Identification No.

1. **Company Name** KINGS COUNTY AB
2. **Premise Address** 168 WALWORTH ST- BKLYN **Zip** 11224
3. **Mailing Address** SAME **Zip** _____

   Telephone No. 718 - 373-0404

INSPECTION SET

4. **Name of Person Preparing Report** *Donald Friedlander, P.E.*
5. **Address** *1091 Willowbrook Road, Staten Island, N.Y.* **Zip** *10314*
6. **Telephone No.** *718-698-7545*

7. SEC.	LOT	BLOCK

8. Emission Point No.	9. Operation Producing Emission	10. Environmental Rating Proposed	Assigned By BAR
1	PAINT SPRAY BOOTH	B	

This Report is: **New** ☒ **Revision** ☐ **Addendum** ☐

11. **Signature** _____ **Title** P.E **Date** 3-29-06

APC - 50A
(Rev. 1/76)

DEPT. OF ENVIRONMENTAL PROTECTION
AIR RESOURCES
295 LAFAYETTE ST., NEW YORK, N.Y. 10012
BUREAU OF ENGINEERING
PROCESS EXHAUST OR VENTILATION SYSTEM
APPLICATION FOR CERTIFICATE OF OPERATION

LOCATION | FACILITY | EMISSION POINT
I

BLOCK | LOT | ZONING
(By Applicant)

PLEASE PRINT OR TYPE XX

SECTION A

1. COMPANY NAME: Kings County AB
2. NUMBER AND STREET ADDRESS: 168 Walworth St.
3. TOWN OR BORO: Bklyn | 4 STATE: NY | 5 ZIP: 11224
6. OWNER CLASSIFICATION: E. ☐ STATE H. ☐ HOSPITAL; A. ☒ COMMERCIAL C. ☐ UTILITY F. ☐ MUNICIPAL I. ☐ RESIDENTIAL; B. ☐ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC INST. J. ☐ OTHER
7. OWNER OR OFFICER'S NAME: Hershy Grunbaum | TITLE: Pres.
8. OWNER OR OFFICER'S SIGNATURE
9. TELEPHONE: 718-373-0404

I hereby affirm under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief, and that the equipment and/or apparatus concerned will be installed, altered and operated in accordance with the requirements of the NYC Air Pollution Control Code. I hereby authorize the P.E. named herein to file this application on my behalf. I hereby acknowledge that false statements are punishable as a Class A misdemeanor pursuant to Section 1408.2-15.25 of the NYC Air Pollution Control Code and Section 210.45 of the Penal Law.

10. NAME OF P.E.: Donald Friedlander, P.E.
11. TELEPHONE: 718-698-7545
12. NUMBER AND STREET ADDRESS: 1091 Willowbrook Road
13. TOWN OR BORO: Staten Island | 14. STATE: N.Y. | 15. ZIP: 10314

LICENSED PROFESSIONAL ENGINEER — DONALD FRIEDLANDER — 046665 — STATE OF NEW YORK

16. application includes: A. ☐ NEW EQUIP'T C. ☐ EXISTING EQUIP'T ONLY; B. ☐ MODIFICATION

I hereby certify to the best of my knowledge and belief to the accuracy of the technical information contained in this application, plans and any supplementary data submitted.

PLACE SEAL ABOVE

17. NYS P.E. Lic. NO.: 46665
18. SIGNATURE OF PROFESSIONAL ENGINEER

19. FACILITY NAME (IF DIFFERENT FROM COMPANY NAME)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)
21. BORO | 22. ZIP
23. BLDG. NAME OR NUMBER | 24. FLOOR NAME OR NUMBER

25. DATE APPLICATION RECEIVED: / /
26. IDENTIFICATION #
27. DATE APPLICATION REVIEWED: / /
28. APPLICATION INCLUDES: A. ☐ NEW EQUIP'T C. ☐ EXISTING EQUIP'T ONLY; B. ☐ MODIFICATION

ASSIGN NYC - DAR PREMISES I.D. NO. AND SOURCE EM. PT. NO. IN SECTION B

FEE: $_____ DATE OF RECEIPT _____ 19____

RECEIPT #_____ CASHIER_____

WORK PERMIT WILL NOT BE ISSUED UNLESS:
(a) INSTALLER IS NAMED AND
(b) WORKMEN'S COMP. & DISABILITY ARE ON FILE WITH DAR

FINAL APPROVAL OF THE INSTALLATION IN THE FORM OF A CERTIFICATE OF OPERATION WILL NOT BE ISSUED UNTIL COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF LAW, RULE AND REGULATION OF THE N.Y.C. AIR POLLUTION CONTROL CODE HAS BEEN VERIFIED AT THE INSTALLATION SITE BY A REPRESENTATIVE OF THE DEPARTMENT.

"I hereby certify that upon approval of this application, plans and any supplementary data, I will make the installation of and adjustments to the equipment and/or apparatus described herein."

Installer's Signature _____

Company Name of Installer: LEGALIZATION | Installer's Name _____ | Title _____

Company Address _____ | Town or Boro _____ | State _____ | ZIP _____

CONDITIONS OF WORK PERMIT:
a) PROPOSED DEVIATION FROM APPROVED APPLICATION MUST BE BY FILING OF AMENDMENT, AND APPROVAL OF SAME.
b) STACK TEST REQUIRED YES ☐ NO ☐
c) APPROVAL OF THIS APPLICATION DOES NOT IN ANY WAY ALTER, AFFECT OR CHANGE THE REQUIREMENT(S) FOR OTHER LICENCES OR PERMITS AS MAY BE REQUIRED BY OTHER GOVERNMENTAL AGENCIES AND DEPARTMENTS.

APPROVED FOR WORK PERMIT ONLY:

by Head, Industrial Processes Division

by Director of Engineering

INSPECTION

FOR AGENCY USE ONLY

29. LOCATION CODE	30. FACILITY ID NO.	31. U.T.M.(E)	32. U.T.M.(N)	33. SIC NUMBER

WORK PERMIT: 37. DATE ISSUED / / | 38. DATE EXPIRES / /

C.O. APPROVAL: 41. DATE ISSUED / / | 42. EXPIRATION DATE / /

EM No. /Yr: /

Date / /

COPY TO NYS - DEC

SECTION B

43. SPRAY BOOTHS: (FURNISH DATA &/OR CHECK APPROPRIATE BOXES)

Mfr.	Model	Frontal opening: Height x Width C. D.	Baffles: Single E.	Baffles: Triple F.	Filters G.	Water Wash H.
A.	B.					

Handgun I.	Automatic J.	Air atomizing K.	Airless L.	Electrostatic M.	Coating Mat'l. N.	O. Use Rate Max. ___ Gals./Hr. ___ Hrs./Day	P. Odor Yes _ No _

(CONTINUED ON OTHER SIDE)

Application for Certificate to Operate
An Existing Autobody Shop

OP	LOCATION	FACILITY	EMISSION POINT
			1

1. NAME OF OWNER/FIRM	9. NAME OF AUTHORIZED AGENT	10. TELEPHONE	19. FACILITY NAME (IF DIFFERENT FROM OWNER/FIRM)
KINGS COUNTY AB	DONALD FRIEDLANDER, PE	718-698-7545	

2. NUMBER AND STREET ADDRESS	11. NUMBER AND STREET ADDRESS	20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)
168 WALWORTH ST.	1091 WILLOWBROOK RD.	SAME

3. CITY - TOWN - VILLAGE	4. STATE	5. ZIP	12. CITY - TOWN - VILLAGE	13. STATE	14. ZIP	21. CITY-TOWN-VILLAGE	22. ZIP	25. STARTUP DATE
BKLYN	NY	11224	STATEN ISLAND	NY	10314			/

6. OWNER CLASSIFICATION	7. NAME OF OWNERS REPRESENTATIVE	8. TEL NUMBER	37. SOURCE CODE	38. HRS/DAY	39. DAYS/YR
A ☐ COMMERCIAL	DONALD FRIEDLANDER	718-698-7545	A1330	6	250

42. CONTROL ID	43. CONTROL TYPE	44. MANUFACTURER'S MAKE AND MODEL	45. DISPOSAL METHOD	158. UTM(E)	159. UTM(N)
01	99	FIBERGLASS FILTERS "WEBCLT" #M2000; 11,500 CFM; 800,000 BTUH	9		

CONTAMINENT / CAS NUMBER	USAGE	UNIT	ENV. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS(LBS/HR) ERP	HOURLY EMISSIONS(LBS/HR) ACTUAL	ANNUAL EMISSIONS(LBS/YR) ACTUAL
55. (SOLIDS) NY079-00-0	56. 750	57. 33	58. 8	59. 0.05	60. 20	61. 6	62. .05	63. 80	64. .325	65. .065	66. 97.6
70. (SOLVENTS) NY998-00-0	71. 750	72. 33	73. M	74. 3.1	75. 1	76. 6	77.	78. 0	79. 3.1	80. 3.1	81.

THIS SYSTEM WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS	155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT	DATE	APPLICABLE RULE 153. 212 | 154. 228
		3/29/06	

41.	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
1 AUTOBODY REPAIR SHOP	7531			

INSPECTION SEE

AGENCY USE ONLY

RECOMMENDED ACTION RE: CO				
169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE	173. 1. ☐ INSPECTED BY: DATE: / / 3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT 4. ☐ APPLICATION FOR C.O. DENIED (DATE) (INITIAL)

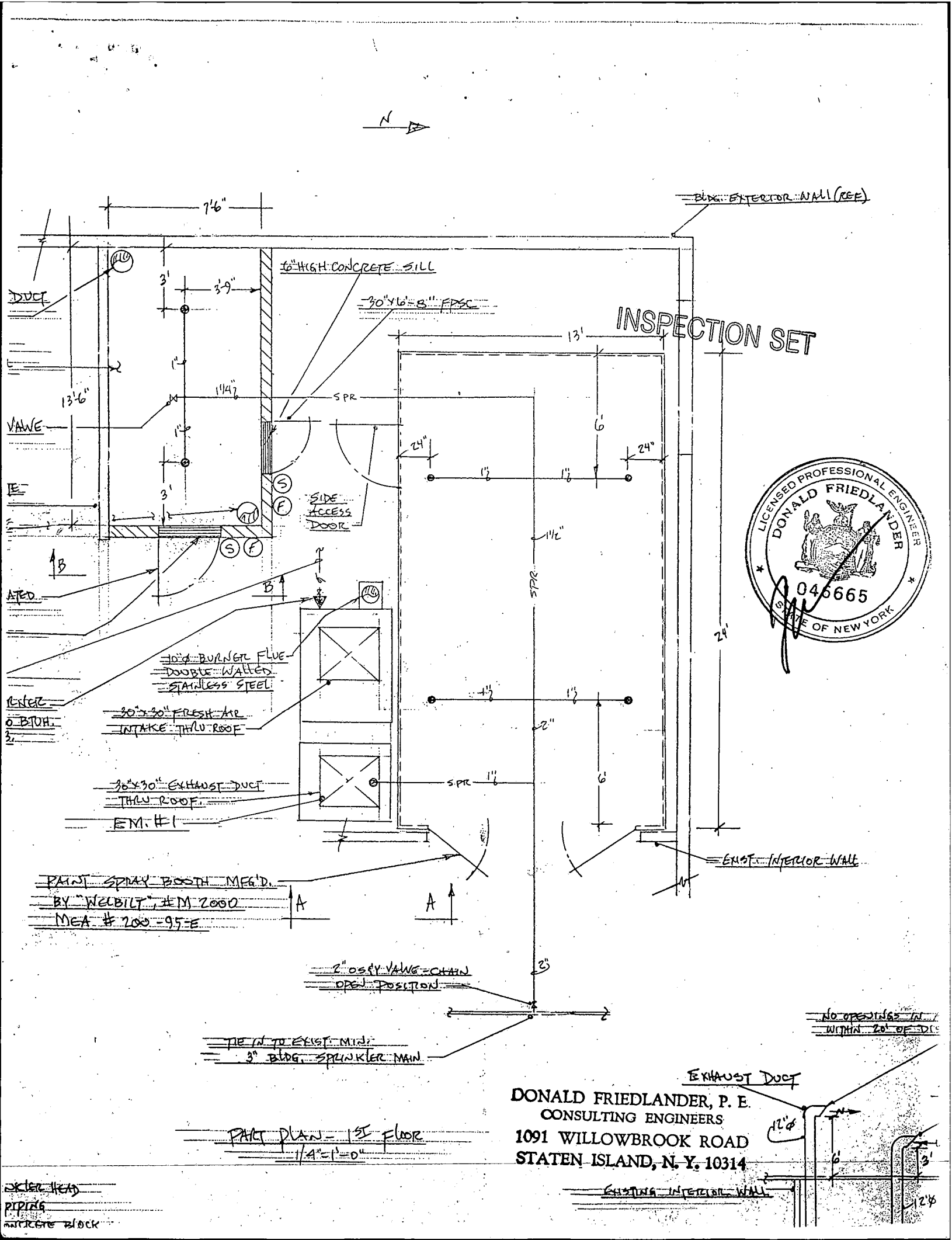
174. SPECIAL CONDITIONS :	
1	2
3	4
5	6

Emissions Worksheet

		(A) Solids	(B) Solvents
W1	Enter the maximum gallons of coatings used in any <u>one hour</u> in columns (A) and (B). (See note below)	0.5	0.5
W2	Weight fraction factor	0.65	6.20
W3	Multiply the values in line W1 by values in line W2. Enter the results in boxes (a) and (c)	(a) .325	(c) 3.1
W4	Enter Control Factor from instructions for appl box 43	0.2	
W5	Multiply the value in box (a) by value in line W4. Enter the result in box (b).	(b) .065	

		(A) Solids	(B) Solvents
W6	Enter gallons of coatings used <u>per year</u> from appl box 56 in both columns (A) and (B)	750	750
W7	Weight fraction factor	0.65	6.20
W8	Multiply the values in line W6 by values in line W7. Enter the results in boxes (d) and (f)	(d) 488	(f) 4650
W9	Enter Control Factor from instructions for appl box 43	0.2	
W10	Multiply the value in box (d) by value in line W9. Enter the result in box (e).	(e) 97.6	

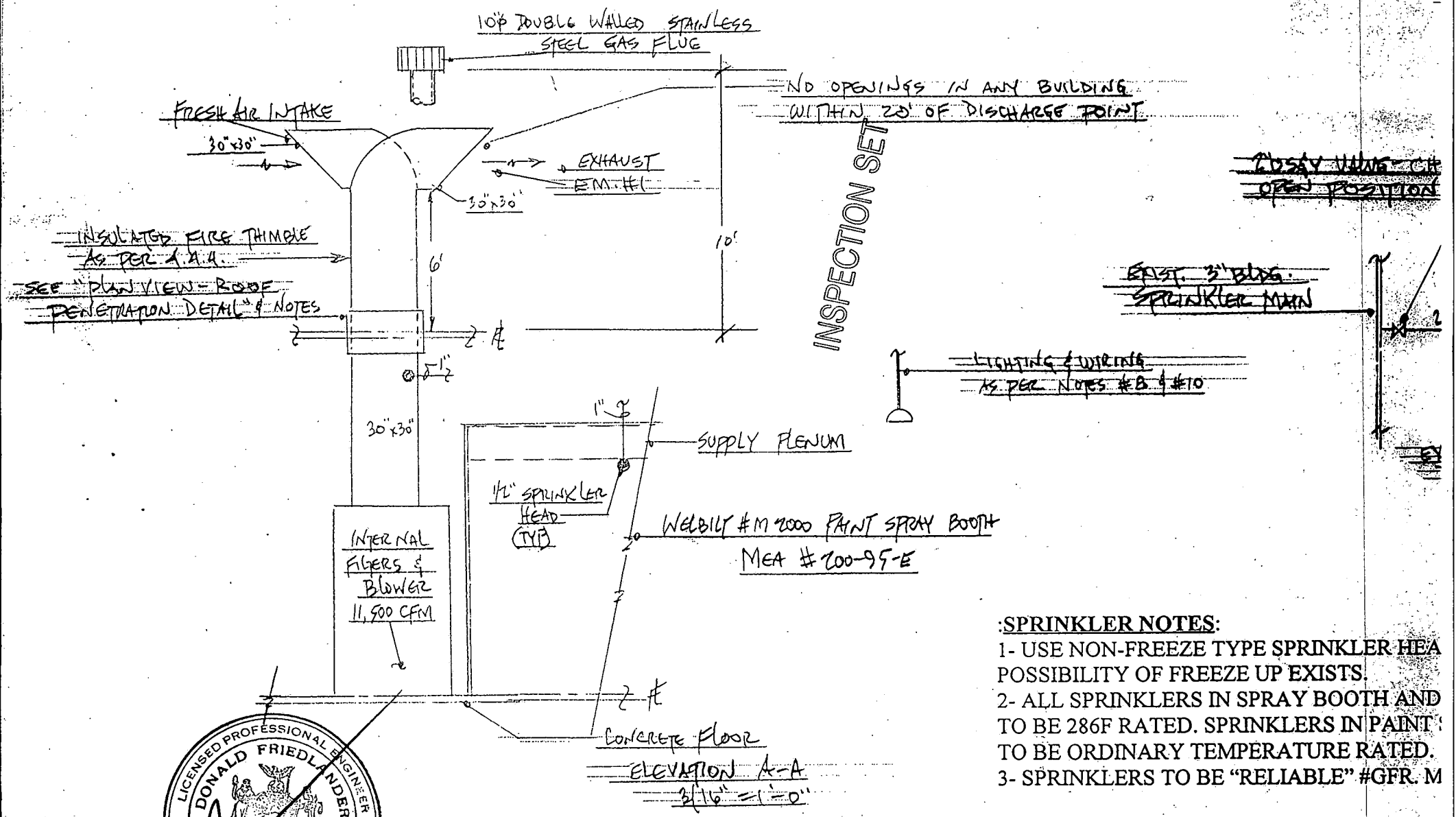
Note: The gallons of coating used per hour is the sum of all coatings actually sprayed on a vehicle. This includes primer, base coats, topcoats, clear coats, thinner, reducer, surfacers and any other paint additives.



LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

PART PLAN - 1ST FLOOR
1/4"=1'-0"

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

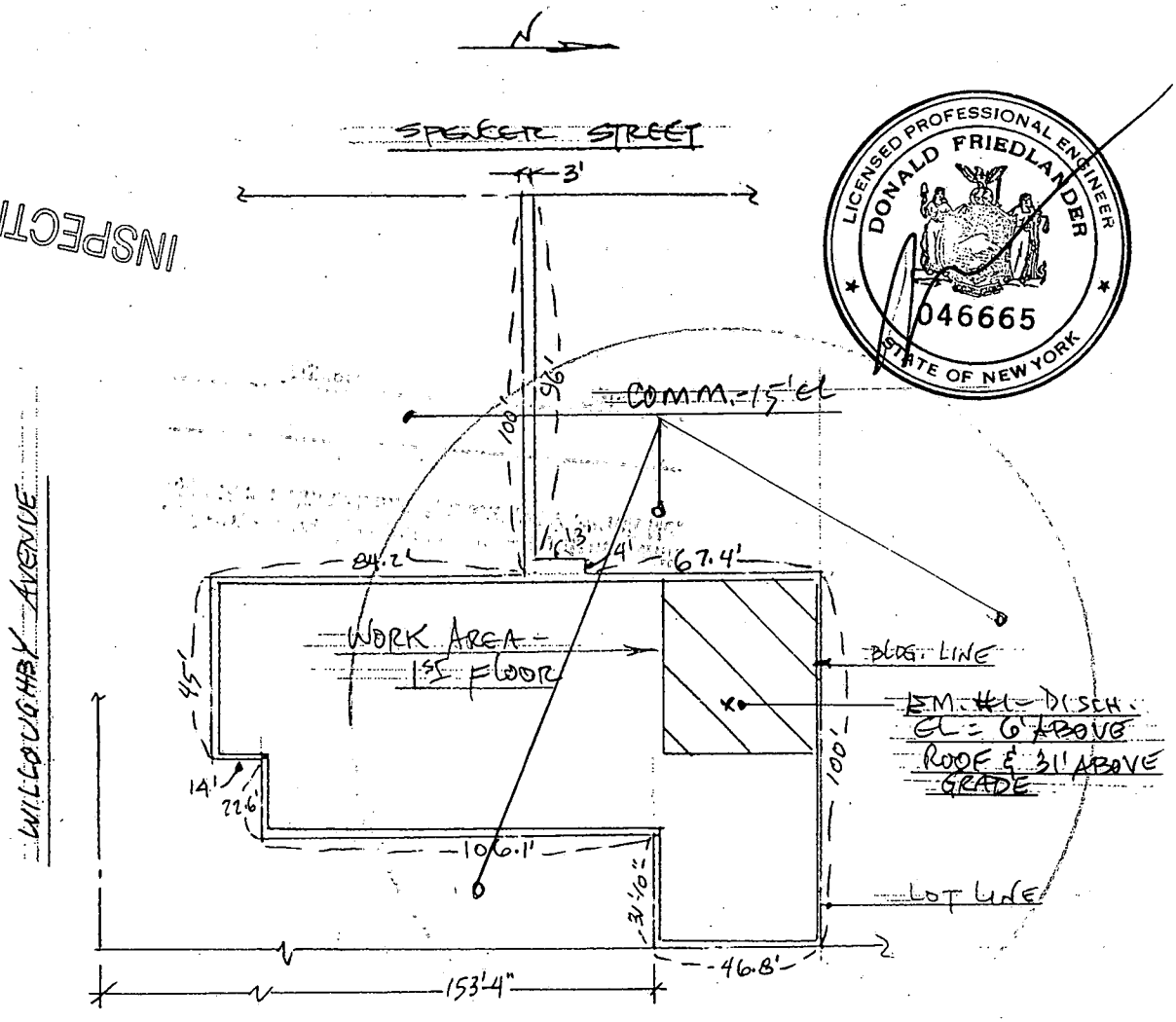


:**SPRINKLER NOTES**:

1- USE NON-FREEZE TYPE SPRINKLER HEA
POSSIBILITY OF FREEZE UP EXISTS.
2- ALL SPRINKLERS IN SPRAY BOOTH AND
TO BE 286F RATED. SPRINKLERS IN PAINT
TO BE ORDINARY TEMPERATURE RATED.
3- SPRINKLERS TO BE "RELIABLE" #GFR. M

LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314



BLOCK = 1751
LOT = 41
ZONE = M1-2
MAP = 13B

KEY PLAN
1" = 50'

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

APPROVED for construction in accordance with Application, Ammendment(s) and Work Permit No.

PB - 139 - 06M

A. Peluso 6/5/06

Engineer Date

DEP Registrations

Installation #:

PB 017407

Y22483

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DEP AIR PERMITTING
2007 MAY 10 A 10:29

Date: 4-26-07

PB017407 K

(Installation Number)

ORIGINAL-KEEP IN FILE

(EN Number)

Re: 168 Walworth St. B'klyn
(Premise Address) (Boro)

PROFESSIONAL CERTIFICATION

Being duly mindful of my responsibilities as a Licensed Professional Engineer in the State of New York and acting as Designated Agent for the applicant, I hereby certify that the application, plans and all supplementary documents submitted in connection with this filing are complete and fully comply with all applicable laws, codes, rules, regulations and directives of the Department of Environmental Protection, Bureau of Air, Noise & Hazardous Materials of the City of New York in effect at the time filed.

LICENSED PROFESSIONAL ENGINEER
DONALD VERBRIDGE ANDER
046665
STATE OF NEW YORK

P.E. Seal & Signature

FOR DEP USE ONLY	

Fee $ 475 Receipt No. 008282

B.E.C. Clerk

Company Name of Installer:

Company Address:

Town or Boro State: Zip:

Installer's Name: Title:

Installer's Signature:

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

INDUSTRIAL PROCESSES DIVISION
ENVIRONMENTAL RATING REPORT
SUMMARY OF POINTS OF EMISSION

EN NO. ORIGINAL-KEEP IN FILE

Premise Identification No.

1. **Company Name** KINGS COUNTY AB
2. **Premise Address** 168 WINTHROP ST- BKLYN **Zip** 11225
3. **Mailing Address** SAME **Zip**

   Telephone No. 718 - 373-0404
4. **Name of Person Preparing Report** *Donald Friedlander, P.E.*
5. **Address** *1091 Willowbrook Road, Staten Island, N.Y.* **Zip** *10314*
6. **Telephone No.** *718-698-7545*

7. SEC.	LOT	BLOCK

8. Emission Point No.	9. Operation Producing Emission	10. Environmental Rating Proposed	Assigned By BAR
1	PAINT SPRAY BOOTH	B	
2	PREP DECK	C	C

This Report is: New ☐ Revision ☐ Addendum ☑

11. **Signature** _____ **Title** P.E **Date** 4-26-07

APC - 5PA
(Rev. 1/76)

DEPT. OF ENVIRONMENTAL PROTECTION
AIR RESOURCES
295 LAFAYETTE ST., NEW YORK, N.Y. 10012
BUREAU OF ENGINEERING
PROCESS EXHAUST OR VENTILATION SYSTEM
APPLICATION FOR CERTIFICATE OF OPERATION

LOCATION | FACILITY | EMISSION POINT
I | | | | | | | | | | | | | | | | | | | | |
BLOCK | LOT

ORIGINAL-KEEP IN FILE
(By Applicant)

PLEASE PRINT OR TYPE xx

SECTION A

1. COMPANY NAME: Kings County AB
2. NUMBER AND STREET ADDRESS: 168 Walworth St.
3. TOWN OR BORO: Bklyn | 4 STATE: NY | 5 ZIP: 11224
6. OWNER CLASSIFICATION: A. [X] COMMERCIAL C. [ ] UTILITY E. [ ] STATE F. [ ] MUNICIPAL H. [ ] HOSPITAL I. [ ] RESIDENTIAL B. [ ] INDUSTRIAL D. [ ] FEDERAL G. [ ] EDUC INST. J. [ ] OTHER
7. OWNER OR OFFICER'S NAME: Hershy Grunbaum | TITLE: Pres.
8. OWNER OR OFFICER'S SIGNATURE
9. TELEPHONE: 718-373-0404

"I hereby affirm under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief, and that the equipment and/or apparatus concerned will be installed, altered and operated in accordance with the requirements of the NYC Air Pollution Control Code. I hereby authorize the P.E. named herein to file this application on my behalf. I hereby acknowledge that false statements are punishable as a Class A misdemeanor pursuant to Section 1403.2-15.25 of the NYC Air Pollution Control Code and Section 210.45 of the Penal Law."

10. NAME OF P.E.: Donald Friedlander, P.E.
11. TELEPHONE: 718-698-7545
12. NUMBER AND STREET ADDRESS: 1091 Willowbrook Road
13. TOWN OR BORO: Staten Island | 14. STATE: N.Y. | 15. ZIP: 10314

LICENSED PROFESSIONAL ENGINEER — DONALD FRIEDLANDER — 046665 — STATE OF NEW YORK

16. application includes: A. [ ] NEW EQUIP'T C. [ ] EXISTING EQUIP'T ONLY B. [ ] MODIFICATION

I hereby certify to the best of my knowledge and belief to the accuracy of the technical information contained in this application, plans and any supplementary data submitted.

PLACE SEAL ABOVE

17. NYS P.E. Lic. NO.: 46665
18. SIGNATURE OF PROFESSIONAL ENGINEER

19. FACILITY NAME (IF DIFFERENT FROM COMPANY NAME)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)
21. BORO | 22. ZIP
23. BLDG. NAME OR NUMBER | 24. FLOOR NAME OR NUMBER

25. DATE APPLICATION RECEIVED: / /
26. IDENTIFICATION #
27. DATE APPLICATION REVIEWED: 05/22/07
28. APPLICATION INCLUDES: A. [ ] NEW EQUIP'T C. [X] EXISTING EQUIP'T ONLY B. [ ] MODIFICATION

ASSIGN NYC - DAR PREMISES I.D. NO. AND SOURCE EM, PT, NO. IN SECTION B

FEE: $_____ DATE OF RECEIPT _____ 19____
RECEIPT #_____ CASHIER_____

WORK PERMIT WILL NOT BE ISSUED UNLESS:
(a) INSTALLER IS NAMED AND
(b) WORKMEN'S COMP. & DISABILITY ARE ON FILE WITH DAR

FINAL APPROVAL OF THE INSTALLATION IN THE FORM OF A CERTIFICATE OF OPERATION WILL NOT BE ISSUED UNTIL COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF LAW, RULE AND REGULATION OF THE N.Y.C. AIR POLLUTION CONTROL CODE HAS BEEN VERIFIED AT THE INSTALLATION SITE BY A REPRESENTATIVE OF THE DEPARTMENT.

"I hereby certify that upon approval of this application, plans and any supplementary data, I will make the installation of and adjustments to the equipment and/or apparatus described herein."

Installer's Signature _____

Company Name of Installer: LEGALIZATION | Installer's Name _____ | Title _____

Company Address _____ | Town or Boro _____ | State _____ | Zip _____

FOR AGENCY USE ONLY

29. LOCATION CODE	30. FACILITY ID NO.	31. U.T.M.(E)	32. U.T.M.(N)	33. SIC NUMBER

WORK PERMIT
37. DATE ISSUED / / | 38. DATE EXPIRES / /

40. CONDITIONS OF WORK PERMIT:
a) PROPOSED DEVIATION FROM APPROVED APPLICATION MUST BE BY FILING OF AMENDMENT, AND APPROVAL OF SAME.
b) STACK TEST REQUIRED YES [ ] NO [ ]
c) APPROVAL OF THIS APPLICATION DOES NOT IN ANY WAY ALTER, AFFECT OR CHANGE THE REQUIREMENT(S) FOR OTHER LICENCES OR PERMITS AS MAY BE REQUIRED BY OTHER GOVERNMENTAL AGENCIES AND DEPARTMENTS.

APPROVED FOR WORK PERMIT ONLY:

by _____
Head, Industrial Processes Division

_____
Director of Engineering

C.O. APPROVAL
41. DATE ISSUED / / | 42. EXPIRATION DATE / /

EM No. /Yr. _____ / _____

Date / / COPY TO NYS - DEC

SECTION B

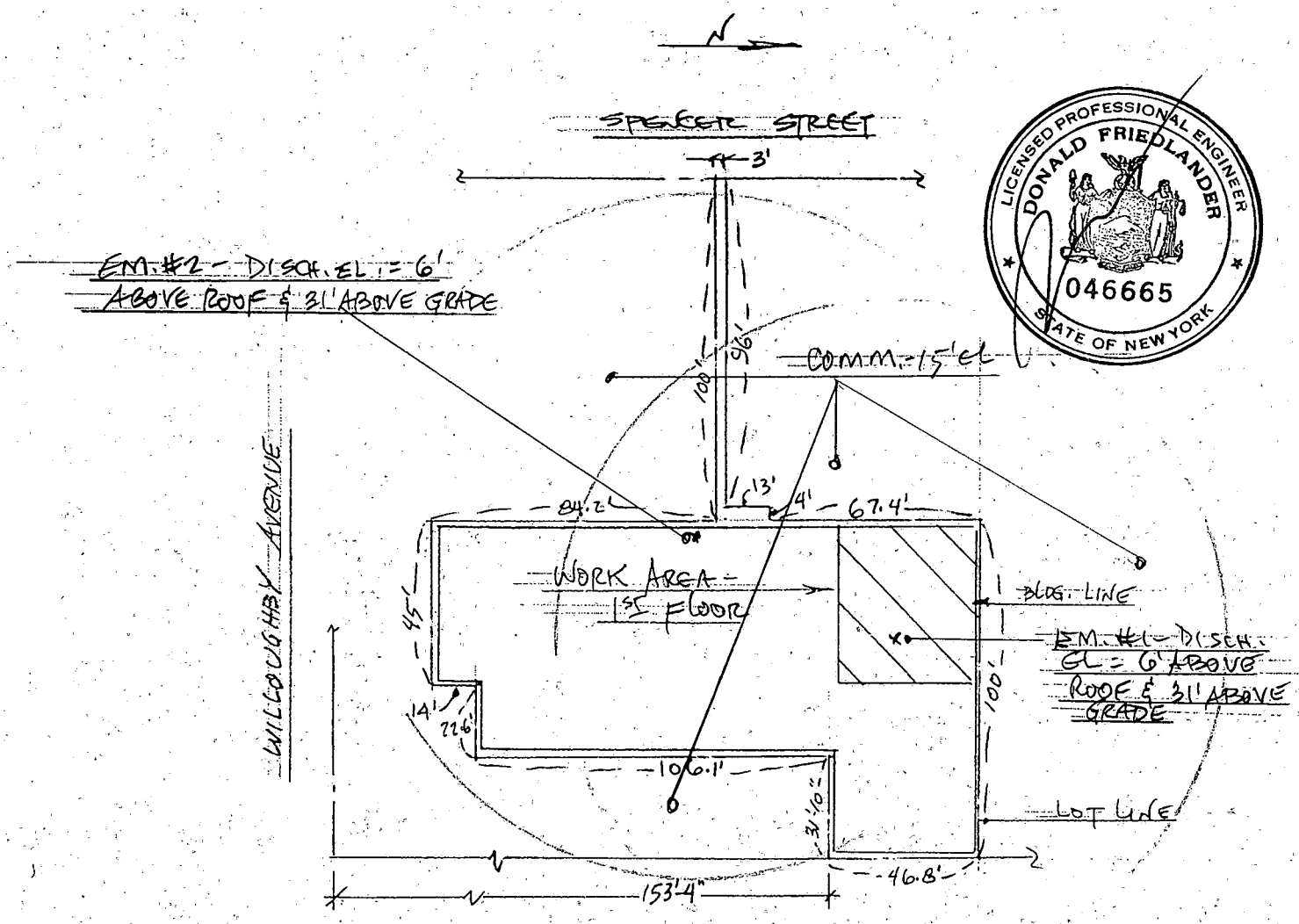
43. SPRAY BOOTHS: (FURNISH DATA &/OR CHECK APPROPRIATE BOXES)

Mfr.	Model	Frontal opening: Height x Width C. D.	Baffles: Single E.	Baffles: Triple F.	Filters G.	Water wash H.
A.	B.					

Handgun I.	Automatic J.	Air atomizing K.	Airless L.	Electrostatic M.	Coating Mat'l. N.	O. Use Rate Max. ___ Gals./Hr. ___ Hrs./Day	P. Odor Yes _ No _

(CONTINUED ON OTHER SIDE)

ORIGINAL-KEEP IN FILE



LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

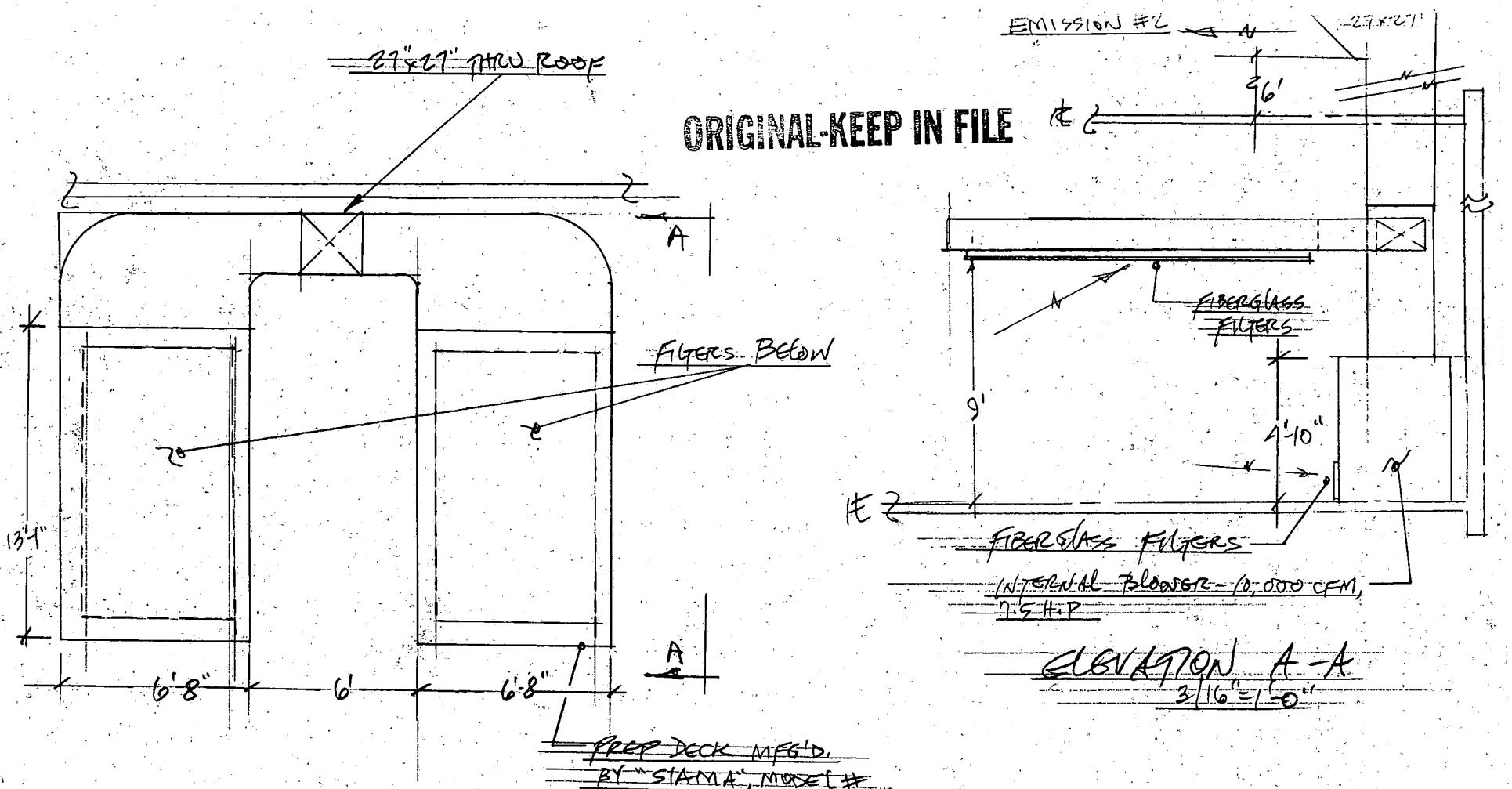
BLOCK = 1951
LOT = 41
ZONE = M1-2
MAP = 13B

KEY PLAN
1" = 50'

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

1-26-07 - ADDED EM. # 2 LA

ORIGINAL-KEEP IN FILE



PLAN PLAN - 1ST FLOOR
3/16"=1'-0"

ELEVATION A-A
3/16"=1'-0"

APPROVED for construction in accordance with
tion, Amendment(s) and Work Permit No.
PB 174-07K
A.G. 05/22/07
Date
ineer

LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

EMISSION #2
KINGS COUNTY AUTO BODY
168 WALWORTH ST.
B'KLYN, NY 11224
SCALE- NOTED
4-26-07

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISION OF AIR
WHITE - REGIONAL OFFICE
PINK - FIELD REP
YELLOW - APPLICANT

OP LOCATION FACILITY EMISSION POINT

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

ORIGINAL-KEEP IN FILE

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1. NAME OF OWNER / FIRM: KINGS COUNTY AUTO BODY
2. NUMBER AND STREET ADDRESS: 16B WALWORTH ST.
3. CITY - TOWN - VILLAGE: B'KLYN | 4. STATE: NY | 5. ZIP: 11224
6. OWNER CLASSIFICATION: A. [X] COMMERCIAL B. [ ] INDUSTRIAL C. [ ] UTILITY D. [ ] FEDERAL E. [ ] STATE F. [ ] MUNICIPAL G. [ ] EDUC. INST H. [ ] HOSPITAL I. [ ] RESIDENTIAL J. [ ] OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: SOLOMON KELLMAN-MGR.
8. TELEPHONE: 347-693-7210
9. NAME OF AUTHORIZED AGENT: DONALD FRIEDLANDER
10. TELEPHONE: 718-698-7545
11. NUMBER AND STREET ADDRESS: 1091 WILLOWBROOK RD.
12. CITY - TOWN - VILLAGE: STATEN ISLAND | 13. STATE: N.Y | 14. ZIP: 10314
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: DONALD FRIEDLANDER
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 466665
17. TELEPHONE: 718-698-7545
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER/FIRM):
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 16B WALWORTH ST.
21. CITY - TOWN - VILLAGE: B'KLYN | 22. ZIP: 11224
23. BUILDING NAME OR NUMBER:
24. FLOOR NAME OR NUMBER: 1
25. START UP DATE: MO 5 / YR 07
26. DRAWING NUMBERS OF PLANS SUBMITTED:
27. PERMIT TO CONSTRUCT: A. [ ] NEW SOURCE B. [ ] MODIFICATION
28. CERTIFICATE TO OPERATE: A. [ ] NEW SOURCE C. [X] EXISTING SOURCE B. [ ] MODIFICATION

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP. (°F)	35. EXIT VELOCITY (FT/SEC)	36. EXIT FLOW RATE (ACFM)	37. SOURCE CODE	38 HRS/DAY	39. DAYS/YR	40. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)
I 0002	15	6	31	27x27	75	37	10,000	1610	8	250	25 / 25 / 25 / 25

SECTION C

41. DESCRIBE PROCESS OR UNIT:
1. [redacted] PREP DECK WORK STATION WHERE CARS ARE PREPARED
2.
3. FOR PAINTING IN A PAINT SPRAY BOOTH. (SANDING, ETC.)
4.
5.
6.
7. CONTAMINENTS DISPOSED IN
8. REFUSE

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	49	44. FIBERGLASS FILTERS	45. 9	46. 5/07	47. 1/2
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Collect 0.2#/hr thru FILTERS.

ERP = 0.2 / .85 = 0.24#/hr.

ER = 0.24 - 0.2 = 0.04#/hr.

SECTION F

CONTAMINANT NAME	CONTAMINANT CAS NUMBER	INPUT OR PRODUCTION	UNIT	EMIS. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) IDA	ANNUAL EMISSIONS (LBS/YR) PERMISSIBLE
54. DUST	55. NY075-00-0	56.	57.	58. C .001	59.	60. 20	61. 6	62.	63. 85	64. .24	65. .04	66. 80	67. 0	68.
69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.
84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.
99.	100.	101.	102.	103.	104.	105.	106.	107.	108.	109.	110.	111.	112.	113.
114.	115.	116.	117.	118.	119.	120.	121.	122.	123.	124.	125.	126.	127.	128.
129.	130.	131.	132.	133.	134.	135.	136	137.	138.	139.	140.	141.	142.	143.

SECTION G

SOLID FUEL TYPE	SOLID FUEL TONS/YR	SOLID FUEL %S	OIL TYPE	OIL THOUSANDS OF GALLONS/YR	OIL %S	GAS TYPE	GAS THOUSANDS OF CF/YR	GAS BTU/CF	APPLICABLE RULE	APPLICABLE RULE
144.	145.	146.	147.	148.	149.	150.	151.	152.	153. 7.212	154.

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT

DATE: 4/26/07

AGENCY USE

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E.)	159. U.T.M. (N.)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY
				7531	/ /	05 / 22 / 07	A.G.

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT.
2. THIS IS NOT A CERTIFICATE TO OPERATE.
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE.

RECOMMENDED ACTION RE C.O.

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

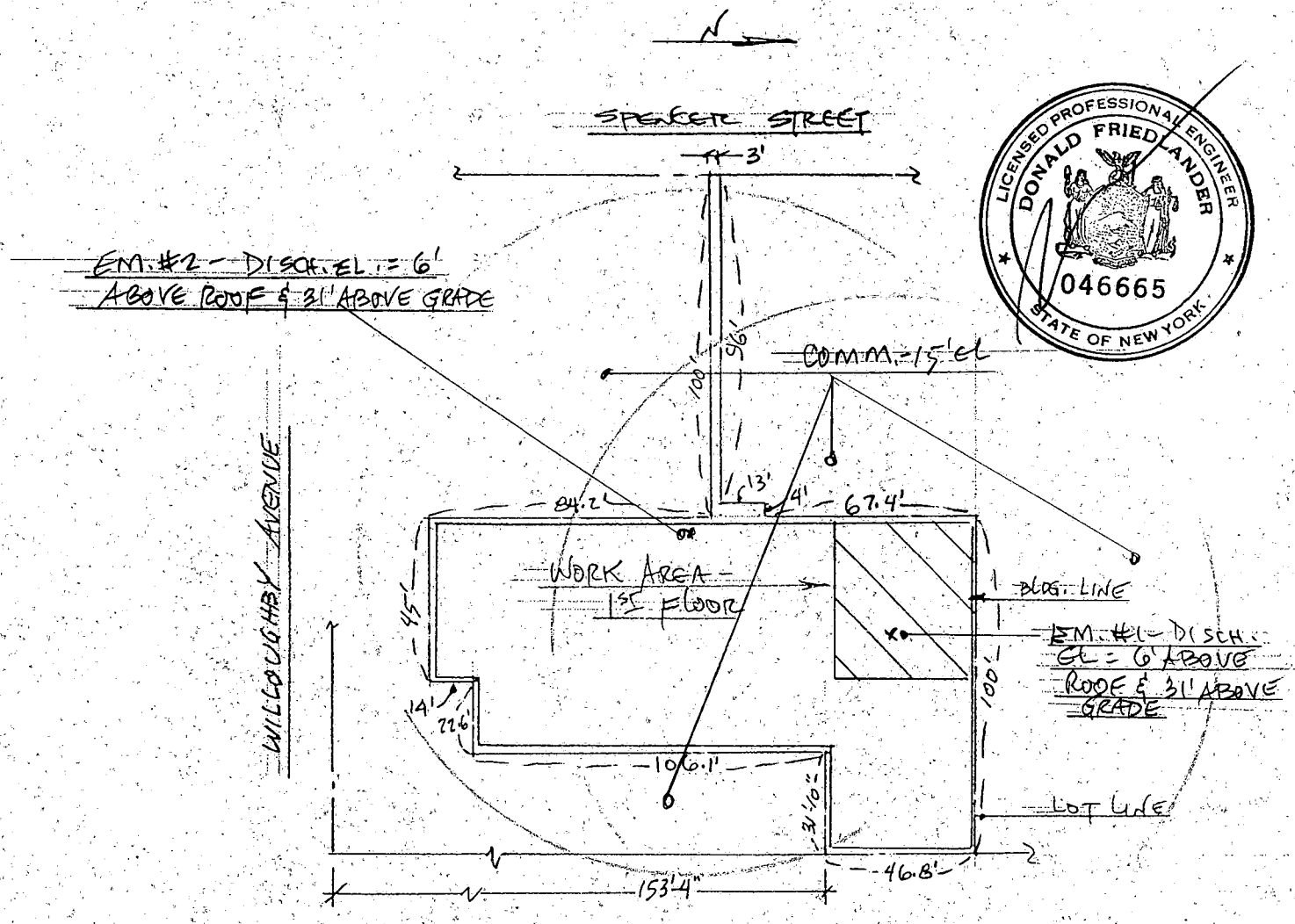
173.
1. [ ] INSPECTED BY _____ DATE _____
2. [ ] INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT. CHANGES INDICATED ON FORM
3. [ ] ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. [ ] APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

USE ONLY

174. SPECIAL CONDITIONS:

PB 174-07K

76-19-3 (10-79)



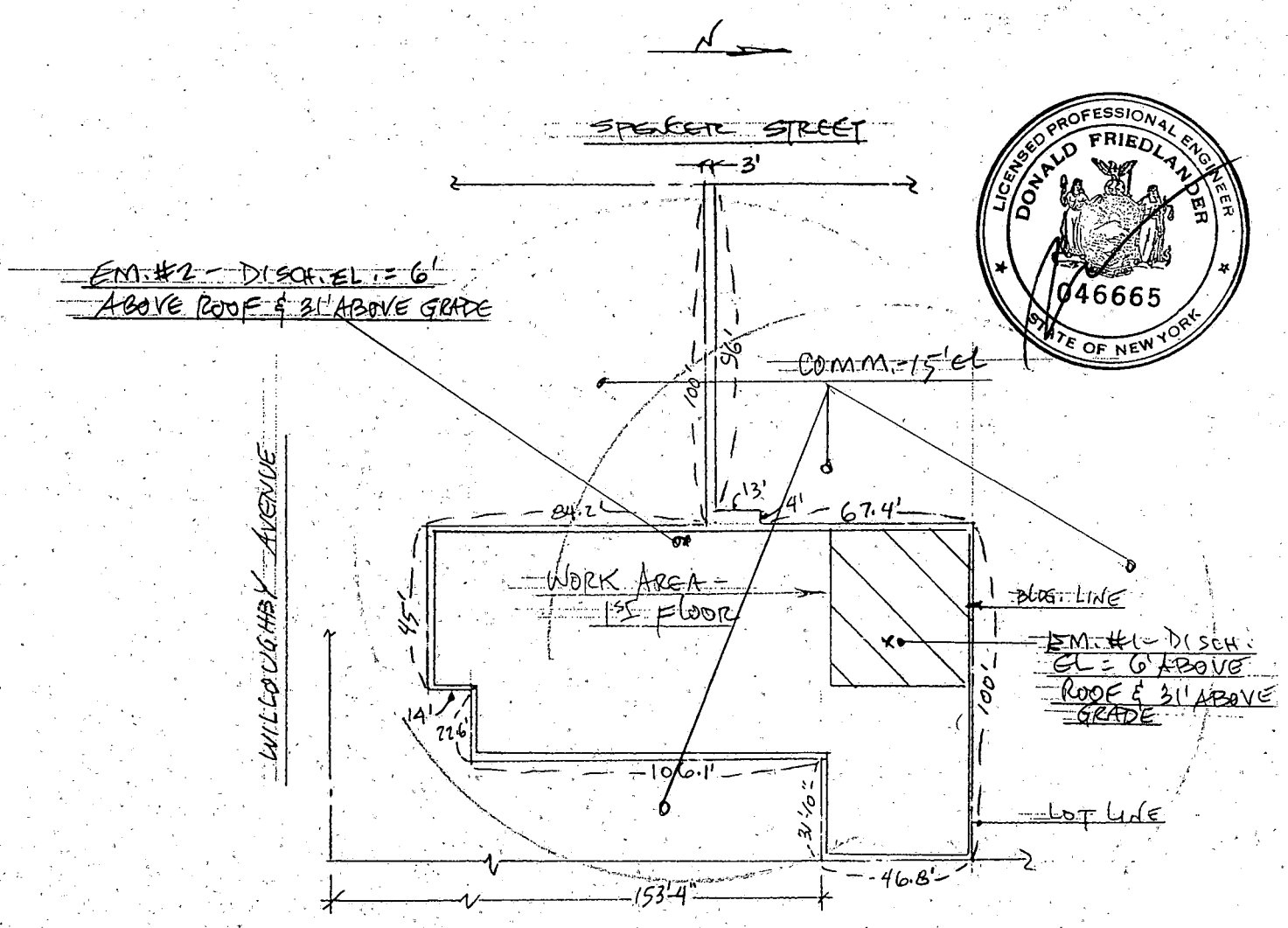
LICENSED PROFESSIONAL ENGINEER
DONALD FRIEDLANDER
046665
STATE OF NEW YORK

BLOCK - 1751
LOT - 41
ZONE - M1-2
MAP - 13B

KEY PLAN
1" = 50'

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

4-26-07 - ADDED EM. #2 IA



BLOCK - 1951
LOT - 41
ZONE - M1-2
MAP - 13B

KEY PLAN
1" = 50'

DONALD FRIEDLANDER, P. E.
CONSULTING ENGINEERS
1091 WILLOWBROOK ROAD
STATEN ISLAND, N. Y. 10314

1-26-07 - ADDED EM. #2 JA

Environmental Protection
Vincent Sapienza, P.E.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

Industrial Combustion Registration

Business Owner Information

Van Blarcom Closures, Inc.

156 Sanford Street, Brooklyn, NY 11205

Application ID: PB011913
Issued Date: 2/27/2019
Expiration Date: 3/19/2022
Request ID: 257388

FACILITY ADDRESS:156 Sanford Street, Brooklyn, NY 11205

Equipment Information	
Manufacturer: Tecogen	**Serial No.(s):** 300053, 300054, 300055, 300056, 300058, 300059, 300060, 300061, 300062, 300063, 300064, 300065
Model: INV-100	
Number of Identical Units: 12	
Fuel Type: NaturalGas	
Max. Fuel Delivery Rate (gph/cfh): 1240	
Gross Input (million Btu/hr): 1.24	
Horsepower: 134	
KW Rating (If applicable): 100	

Usage Information	
Primary Use: Stationary MicroTurbine	**Noise Control:** Muffler

Average Use	
Hours/day: 24	**Hours/year:** 8736

Special Conditions:

NA

The holder of this registration is responsible for the use of the equipment in accordance with all the application requirements of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this registration for willful or continued violation of the Air Code. Any purported or attempted transfer of a registration from one location to another from one piece of equipment to another automatically revokes the registration. Section 24-135 NYC Air Pollution Code.

PB011913

R. Radhakrishnan, P.E.
Director of Air Engineering / For the Commissioner

DISPLAY REGISTRATION ON PREMISES NEAR EQUIPMENT

Environmental Protection
Vincent Sapienza, P.E.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

Industrial Combustion Registration

Business Owner Information

Van Blarcom Closures, Inc.

156 Sandford St., Brooklyn, NY 11205

Application ID: PR012717
Issued Date: 5/10/2018
Expiration Date: 6/9/2020
Request ID: 236242

FACILITY ADDRESS:156 Sandford St., Brooklyn, NY 11205

Equipment Information	
Manufacturer: Caterpillar	**Serial No.(s):** K-1704-49
Model: 3406TA	
Number of Identical Units: 1	
Fuel Type: NaturalGas	
Max. Fuel Delivery Rate (gph/cfh): 1591	
Gross Input (million Btu/hr): 1.64	
Horsepower: 225	
KW Rating (If applicable):	

Usage Information	
Primary Use: Stationary Engine	**Noise Control:** industrial grade muffler

Average Use	
Hours/day: 18	**Hours/year:** 5000

Special Conditions:

Emission Control: Miratech Catalyst RHS2-2210-05-EC2 (A catalytic converter was designed and retrofitted to the CAT 3406 TA engine to reduce emissions of NO2 by over 95%. This catalytic converter only applied for this equipment).

The holder of this registration is responsible for the use of the equipment in accordance with all the application requirements of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this registration for willful or continued violation of the Air Code. Any purported or attempted transfer of a registration from one location to another from one piece of equipment to another automatically revokes the registration. Section 24-135 NYC Air Pollution Code.

PR012717

R. Radhakrishnan, P.E.
Director of Air Engineering / For the Commissioner

DISPLAY REGISTRATION ON PREMISES NEAR EQUIPMENT

InVerde e+

Inverter-Based Cogeneration

Tecogen's Unequaled Ultra-Low Emissions CHP Unit

Key Features & Benefits

- ***33% Electrical Efficiency (94% overall) - Best in Class!***
- Produce your own electricity 24/7 at half the cost of utility power
- **InVerde e+ patented variable speed operation allows for 10 kW to 125 kW output**
- Fully scalable from 10kW to multi-MW
- **Rapid black-start for Type 10 Emergency Power Supply System (EPSS),** with grid-independent operation (125 kVA). Also meets CSA 282-15 for 10 and 15 second black-start
- **Superior part load efficiency with turndown to 10% load**
- Ultra-low emissions levels, SCAQMD compliant and NJDEP exempt
- Inverter-based streamlined utility interconnection, UL1741 certified for safe utility connection
- Microgrid compatible with licensed CERTS power balancing control software
- **4" WC gas pressure requirement, no costly gas booster needed**
- **Cloud-based, real-time performance monitoring available via Tecogen's CHP Insight**
- **Demand response input for automated dispatching**
- Streamlined multi-unit controls for lowest in class installation cost
- Available with indoor or outdoor acoustic enclosure
- **DC input feature for seamless battery and solar PV integration**
- Provides additional LEED points (Optimize Energy Performance)
- UL1741 certified for standardized and safe utility interconnection
- Smallest footprint and lowest cost per kW

Ultera EMISSION CONTROL



DESIGNED • ASSEMBLED IN THE USA
Using a majority of Made in America materials and components

INTERTEK ETL LISTED c US

Renewable Energy Compatible,
a Clean Energy Solution for Today & Tomorrow

NYSIR Certified

CSA C22.2 #100 Certified

CSA C22.2 #14

UL 2200 Certified

UL 1741 Certified

Tecogen products are covered under one or more of the following U.S. patents: 8,578,704 · 7,239,034 · 7,243,017 and other patents pending

Tecogen Inc. • 45 First Avenue, Waltham, MA 02451 • 781-466-6400 • www.tecogen.com

Inverter-Based Cogeneration

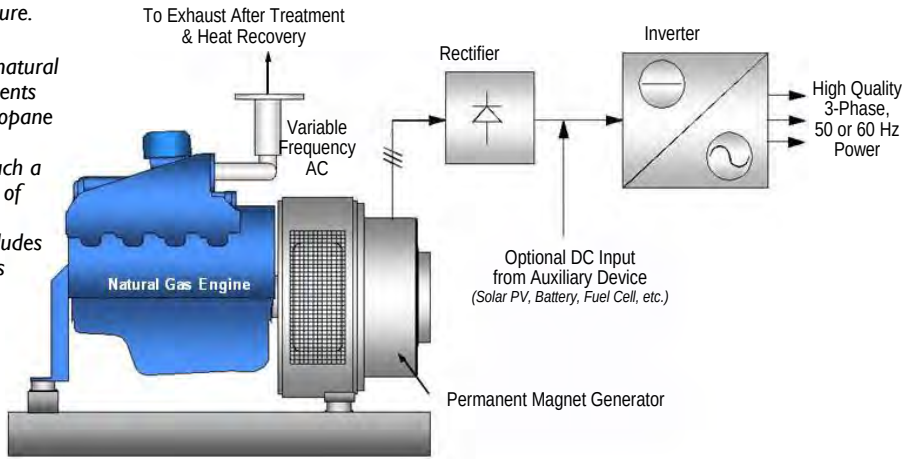
Specifications: [1, 2]

Engine	*Proven Low-Emission Industrial Natural Gas V-8 Engine, 700-2400 rpm*
Generator	*Water-Cooled Permanent Magnet Generator*
Inverter	*Customized Power Electronics with Patented Topology for Variable Speed and Standby Operation*
Controls	*TecoNet™ Microprocessor-Based System, Fully Automatic, Fault Monitoring, Lead/Lag Multiple Unit Control, Modbus / BACnet Networking & Remote Ethernet Communications*

Electric Output (kW)	75	100	125
Standalone Electric Capacity[3]	100 kW / 125 kVA		
Emergency Power Rating[4,5]	TYPE 10 EPSS Approved		
Thermal Output			
Engine (Jacket/Exhaust/Oil)	466,000 Btu/hr	613,000 Btu/hr	780,000 Btu/hr
Generator/Power Electronics	20,000 Btu/hr	27,000 Btu/hr	31,000 Btu/hr
Total	486,000 Btu/hr	640,000 Btu/hr	811,000 Btu/hr
Gas Input	876 scfh	1152 scfh	1455 scfh
Electrical Efficiency			
@LHV of 905 Btu/scf	32.3%	32.7%	32.4%
@HHV of 1020 Btu/scf	28.6%	29.0%	28.7%
Overall Efficiency			
@LHV of 905 Btu/scf	93.6%	94.1%	94.0%
@HHV of 1020 Btu/scf	83.0%	83.5%	83.4%
Required Gas Pressure (when operating at full load)	4 - 12" WC		
Hot Water Flow	30 gpm		
Maximum Leaving Water Temperature	230 °F		
Maximum Entering Water Temperature	180 °F		
Air Emissions (SCAQMD & NJ DEP Compliant)[6]			
• **NOx**	< 0.07 lb/MWh		
• **CO**	< 0.2 lb/MWh		
• **VOC**	< 0.1 lb/MWh		
Electrical Service	480 V, 3 PH, 3-wire		
Operating & Storage Temperature Range	-4° to 104° F (-20° to 40° C)		
Acoustic Level	66 dBa @ 20'	67 dBa @ 20'	69dBa @ 20'
Weight (indoor / outdoor)	4,300 lb / 4,800 lb		
Dimensions (indoor / outdoor)	7'6"L x 4 0"W x 5'9"H / 7'10"L x 4'11"W x 6'4"H		

ETL Listed - Labeled for compliance with UL 1741- Utility Interactive; Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources, UL 2200 - Stationary Engine Generator Assemblies, CSA C22.2 #100 - Motors and Generators and CSA C22.2 #14 - Industrial Control Equipment
NYSIR Certified - NY Department of Public Service, New York Standardized Interconnection Requirements

1. *All specifications are +/- 5% and are subject to change without notice.*
2. *Above performance data is valid up to 104° F ambient temperature.*
3. *Standalone capacity is the lesser of 100 kW or 125 kVA.*
4. *The **InVerde e+,** can act as an emergency generator wherever natural gas is an approved emergency fuel source. Fuel storage requirements can be satisfied by utilizing propane; automatic changeover to propane from natural gas available upon request.*
5. *A single InVerde should not be used for critical life safety loads such a fire pump. In this instance, Tecogen recommends the application of redundant InVerde units or a separate, dedicated power source.*
6. *Emission limits are based on the Ultera Emissions option and includes 60% system efficiency (HHV) credit for Distributed Generation as per SCAQMD Rule 1110.2.*



Tecogen®
Advanced Modular CHP Systems

Tecogen Inc. • 45 First Avenue, Waltham, MA 02451 • 781-466-6400 • www.tecogen.com

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, NY 11368-5107

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Mailed 5/3/12

NYC Environmental Protection

Carter H. Strickland Jr.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595-3855

TCO Rev 10/11

Triennial Certificate of Operation

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
This Certificate is **NOT** Valid Without Official Seal

☒PA ☐PB Application	Date Inspected	Date Issued	Expiration Date	E.P. #	E.R.
0386-99Z	04/25/12	04/25/12	05/12/15	1	B

Professional Engineer:

Owner:
GRAPHIC TECHNOLOGY , INC.
44-02 11th STREET
L.I.C. , N.Y. 11101

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection **NO later than ninety (90) days prior to its Expiration Date.**

Premise Address: 44-02 11th STREET — Floor: 1 — Borough: Queens

Zip Code: 11101 — Block: - — Lot: -

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of a Certificate of Operation from one location to another or from one piece of equipment to another automatically revokes the Certificate. Section 24-135 NYC Air Pollution Code.

Description of Installation:	Used: Hours / Day:	Days / Year:
PRINTING	16	250

Description of Equipment: (1) KOMORI 26" - 6 COLOR OFFSET PRINTING PRESS; AND (1) KOMORI 40" - 6 COLOR PRINTING PRESS.

Exhaust Equipment: (1) 36" DIAM. WINDOW FAN , DELIVERING 3,600 C.F.M. @70F.

Control Equipment: NONE.

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source(s) prior to the expiration of this Triennial Certificate of Operation.

Special Conditions / Remarks

EXHAUST FAN MUST BE ON DURING PRINTING PROCESS.

RECERTIFICATION

R. Radhakrishnan

R. Radhakrishnan, P.E.
Director of Engineering / For the Commissioner

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

M.T.-E093

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

TCO Rev 10/11

NYC Environmental Protection

Carter H. Strickland Jr.
Commissioner

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595-3855

Triennial Certificate of Operation

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
This Certificate is **NOT** Valid Without Official Seal

☒PA ☐PB Application	Date Inspected	Date Issued	Expiration Date	E.P. #	E.R.
0386-99Z	04/25/12	04/25/12	05/12/15	1	B

Professional Engineer:

Owner:
GRAPHIC TECHNOLOGY , INC.
44-02 11th STREET
L.I.C. , N.Y. 11101

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection **NO later than ninety (90) days prior to its Expiration Date.**

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Zip Code: 11101 — Block: - — Lot: -

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Special Conditions / Remarks

EXHAUST FAN MUST BE ON DURING PRINTING PROCESS.

RECERTIFICATION

R. Radhakrishnan

R. Radhakrishnan, P.E.
Director of Engineering / For the Commissioner

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

M.T.-E093

A20

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP

Emily Lloyd,
Commissioner

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Robert C. Avaltro
Deputy Commissior

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	PA 386-99Z
Date Inspected:	04/09/2009
Date Issued:	04/30/2009
Expiration Date:	05/12/2012

E.P.#:	1
E.R.:	B

P.E.

—

OWNER
Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11TH Street Flr.#: 1ST Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of...a Certificate of Operation...from one location to another or from one piece of equipment to another automatically revokes the Certificate. Sec. 24-135 NYC Air Pollution Code.

Description of Installation: Offset Printing Presses.

Used: 16 Hrs/Day 250 Days/Year

Description of Equipment: One (1) Komori 26" - 6 color offset printing press; one (1) Komori 40" - 6 color press and one (1) ~~one (1)~~ Miehle 40" - 4 color press.

Exhaust System: One (1) 36" diam. window Fan, delivering 3,600 C.F.M. @ 70°F.

Control Device: NONE

RECERTIFICATION O.K. For TCO M.T. 04-25-12 *Miehle Printer is no longer Exists.

Raphael Hodge, P.E.,
Director of Engineering
For the Commissioner

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source (s) prior to the expiration of this Triennial Certificate of Operation

9.6. /E047
04/09/09

AR 505-A - (REV. 9/02)

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Fee $ 280 Receipt No. 005171
B.E.C. Clerk

Form 31

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373
Records Control (718) 595 – 3855

DEP AIR PERMITTING, BEC
2012 APR 25 P 1:20

NYC Environmental Protection

Caswell F. Holloway
Commissioner

Carter H. St
Deputy Co

Micha
Assistant C
Environmenta

APPLICATION TO RENEW

☐ Registration ☒ Operating Certificate

IF YOU INSTALLED A DIFFERENT BOILER / BURNER / HEATER YOU MUST FILE A NEW APPLICATION

Date:	Fee Enclosed:	Installation:
4/25/12	$ 280.00	# PA 0386-99Z

Make checks or money orders payable to NYC Department of Environmental Protection
Please fill out this form completely, and submit it to DEP WITH ORIGINAL SIGNATURE.

Premise Address: 4402 11th St. Long Island City (Street Address) — Graphic Technology Inc (Name of Premise (if any))

Floor	Room No.	Borough	Zip Code	BIN	Block
1		Queens	11101		

Information of authorized agent who can be contacted to schedule an inspection, provide access and operate equipment to demonstrate compliance.	Name of Contractor / Agent / Superintendent:	Telephone:	Fax:
		718-706-7600	718-784-0165
	Address:	Apt.# / Borough: / Zip	

I request renewal of the Operating Certificate / Registration for the equipment which is the subject of the above referenced installation number a has been inspected by the owner / owner's agent and is ready for inspection by the New York City, Department of Environmental Protection, Bu Environmental Compliance.

I am aware that if there is exposed friable asbestos in a damaged or deteriorated condition in the room / area where the equipment is located th inspection will not be completed and a Notice of Disapproval will be issued.

"I hereby affirm under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief and that the equ will be operated in accordance with the requirements of the Air Pollution Control Code, Chapter 1 of Title 24, New York City Administrative Code appropriate requirements of other agencies. I recognize that false statements are punishable as a misdemeanor pursuant to Sec 24-190 of the A Pollution Control Code and Sec 210.45 of the Penal Law."

BUSINESS

Applications must be made by the owner of the equipment. If the applicant is a partnership or group other than a corporation, the application must be made by one individual who is a member of the group. If the applicant is a corporation, the application must be made by an officer of the corporation.

☐ Owner / ☒ Representative Signature

Owner's Name: Rich Koppel

Representative's Name: David Pokorny

Select type of ownership:
☐ Sole Proprietorship ☐ Partnership ☐ LLC ☒ Corporation ☐ Other:

Title:
☒ Owner ☐ President ☐ Secretary
☐ Partner ☐ Treasurer ☐ Other:

Date | Owner's Telepr

Owner's Address | Borough | Zip Code

Only if Business owner is different from Premise owner.

PREMISE

☐ Please check here if ownership has changed since la

Owner's Name	Owner's Telephone	Date
Owner's Address	Borough	Zip Code

FOR GENERAL INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E.

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Emily Lloyd, Commissioner

Robert C. Avaltroni, Deputy Commissioner

Miele 4/30/09

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#	PA 386-997
Date Inspected:	04/09/2009
Date Issued:	04/30/2009
Expiration Date:	05/12/2012

E.P.#:	1
E.R.:	B

P.E.
—

OWNER
Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11TH Street Flr.#: 1ST Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

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Description of Installation: offset Printing Presses.

Used: 16 Hrs/Day 250 Days/Year

Description of Equipment: One (1) Komori 26" - 6 color offset printing press; one (1) Komori 40" - 6 color press and one (1) Miehle 40" - 4 color press.

Exhaust System: One (1) 36" diam. window Fan, delivering 3,600 C.F.M. @ 70°F.

Control Device: NONE

RECERTIFICATION

Raphael Hodge, P.E.,
Director of Engineering
For the Commissioner

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source (s) prior to the expiration of this Triennial Certificate of Operation

A.G. /E047
04/09/09

AR 505-A - (REV. 9/02)

THE CITY OF NEW YORK DEPARTMENT

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Emily Lloyd,
Commissioner

Robert C. Avaltroni,
Deputy Commissioner

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	PA 386-997
Date Inspected:	04/09/2009
Date Issued:	04/30/2009
Expiration Date:	05/12/2012

E.P.#:	1
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P.E.
—

OWNER
Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11TH Street Flr.#: 1ST Boro: Queens

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RECERTIFICATION

Raphael Hodge, P.E.,
Director of Engineering
For the Commissioner

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9.6. /E047
04/09/09

AR 505-A - (REV. 9/02)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
Records Control (718) 595-3855

Emily Lloyd,
Commissioner

Robert C. Avaltroni,
Deputy Commissioner

INDUSTRIAL PROCESSES SECTION

FIELD INSPECTION REPORT

DATE:	04/09/09
PA / PB #	PA 386-997

1. COMPANY NAME: Graphic Technology, Inc.
2. ADDRESS: 44-02 11 Street BORO Queens FLR 1st
3. INSPECTED BY: A.S. PLANT REP: _____
4. EMISSION POINT: #1 RECEPTOR DISTANCES: _____ NUISANCE/POSSIBILITY: _____
5. EQUIPMENT DESCRIPTION: Printing
   Fee is: $ 280.00
   Paid: $ 245.00
6. ~~AGREEMENT WITH FILING?~~ YES _____ X NO _____ SKETCH:
   Fee due: $ 35.00
7. REASON FOR INSPECTION: ☐ C.O. ☒ T.C.O. ☐ COMPLAINT ☐ SURVEY
8. CONDITIONS OBSERVED: (1) Komori – 6 color (26")
   (1) Komori – 6 color (40")
   (1) Miehle – 4 color (40")
9. OBSERVED EMISSIONS: (1) Window Fan for general ventilation of working area.
10. COMMENTS: OK for TCO
    A.S. 04/09/09
    "V" or "E" to 23 Street

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor
Flushing, New York 11373-5108
Records Control (718) 595-3855

11101

March, 2009

TRIENNIAL CERTIFICATE EXPIRATION NOTICE

2009 MAR 25 A 1:16

GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS, NY 11101

Receipt No. 10317

F.E.C. Clerk

RE: Certificate to operate Industrial Processing Equipment,
E.R.:
ACFM:

INSTALLATION #: PA038699Z

EQUIPMENT LOCATED AT: 44-02 11 STREET

EXPIRATION DATE: 5/12/2009

COMPLETE AND SIGN THIS RENEWAL APPLICATION FORM AND RETURN IT TO:

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 JUNCTION BOULEVARD
RECORDS CONTROL, 9TH FLOOR
FLUSHING, NY 11373-5108.

INCLUDE YOUR CHECK OR MONEY ORDER PAYABLE TO NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION. RENEW 90 DAYS PRIOR TO EXPIRATION DATE.

PLEASE PROVIDE NAME, ADDRESS AND TELEPHONE NUMBER OF SUPERINTENDENT, CONTRACTOR OR OTHER AUTHORIZED AGENT WHO CAN BE CONTACTED TO SCHEDULE AN INSPECTION, PROVIDE ACCESS AND OPERATE EQUIPMENT TO DEMONSTRATE COMPLIANCE.

John Strong — SUPERINTENDENT / CONTRACTOR / AGENT
718 706-7600 — TELEPHONE NUMBER
44-02 11th St c/o Graphic Technology — STREET ADDRESS
L.I.C. — CITY
NY — STATE
11101 — ZIP
APT. NO.
718 784-0165 — FAX NUMBER
E-MAIL ADDRESS

I REQUEST RENEWAL OF THE CERTIFICATE FOR THE EQUIPMENT WHICH IS THE SUBJECT OF THE ABOVE REFERENCED INSTALLATION NUMBER AND WHICH HAS BEEN INSPECTED BY THE OWNER/OWNER'S AGENT AND IS READY FOR INSPECTION BY THE BUREAU OF ENVIRONMENTAL COMPLIANCE.

I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN THE ROOM/AREA WHERE THE EQUIPMENT IS LOCATED, THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE OF DISAPPROVAL WILL BE ISSUED.

I HEREBY AFFIRM UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED ON THIS FORM IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE EQUIPMENT WILL BE OPERATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC AIR POLLUTION CONTROL CODE AND ACKNOWLEDGE THAT ANY ALTERATION OF THE EQUIPMENT WILL BE DONE IN ACCORDANCE WITH THE NYC AIR POLLUTION CONTROL CODE AND APPROPRIATE REQUIREMENTS OF OTHER AGENCIES. I RECOGNIZE THAT FALSE STATEMENTS ARE PUNISHABLE AS A MISDEMEANOR PURSUANT TO SECTION 24-190 OF THE NYC AIR POLLUTION CONTROL CODE AND SECTION 210-45 OF THE PENAL LAW.

PLEASE MAKE ANY CORRECTIONS TO THE OWNER'S NAME AND ADDRESS IF NECSSARY.

DEP COMPUTER ESTIMATED FEE IS: $245.00.
FINAL DEP FEE DETERMINATION WILL BE MADE BY DEP. FEES ARE NON-TRANSFERABLE.

Bonnie McCloskey — OWNER/REPRESENTATIVE'S SIGNATURE
Bookkeeper — TITLE
3/20/09 — DATE

IF ALREADY RENEWED, PLEASE DISREGARD THIS LETTER

T OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107

Christopher O. Ward, Commissioner

Robert C. Avaltroni, Deputy Commissioner

Records Control (718) 595 - 3855

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	PA 386-997
Date Inspected:	05/25/2006
Date Issued:	
Expiration Date:	05/12/2009

E.P.#:	1
E.R.:	B

P.E.

—

OWNER

Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11th Street Flr.#: 1st Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of...a Certificate of Operation...from one location to another or from one piece of equipment to another automatically revokes the Certificate. Sec. 24-135 NYC Air Pollution Code.

Description of Installation: Offset Printing Presses.

Used: 16 Hrs/Day 250 Days/Year

Description of Equipment: One (1) "Komori" 26" - 6 color press;
One (1) "Komori" 40" - 6 color & one (1) "Miehle" 40" - 4 color presses.

Exhaust System: One (1) 36" diam. window fan, delivering 3,600 C.F.M. @ 70°F.

Control Device: NONE

RECERTIFICATION

Raphael Hodge, P.E.,
Director of Engineering
For the Commissioner

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source (s) prior to the expiration of this Triennial Certificate of Operation

A.G./E047
05/25/06

OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
Records Control (718) 595 - 3855

Christopher O. Ward, Commissioner

Robert C. Avaltroni, Deputy Commissioner

INDUSTRIAL PROCESSES SECTION

FIELD INSPECTION REPORT

DATE:	05/25/06
PA / PB #	386-997

1. COMPANY NAME: Graphic Technology, Inc.
2. ADDRESS: 44-02 11 Street BORO Queens FLR 1st
3. INSPECTED BY: A. G. PLANT REP: Jack Strong - President
4. EMISSION POINT: #1 RECEPTOR DISTANCES: _____ NUISANCE/POSSIBILITY: _____
5. EQUIPMENT DESCRIPTION: Offset Printing Presses
6. AGREEMENT WITH FILING? YES _____ NO _____ SKETCH:

Fee is: $280.00

7. REASON FOR INSPECTION: ☐ C.O. ☒ T.C.O. ☐ COMPLAINT ☐ SURVEY

Paid: $525.00

8. CONDITIONS OBSERVED:

Over paid: $245.00

(1) Komori - 6 color (26")

9. OBSERVED EMISSIONS:

(1) Komori - (40") - 6 color
(1) Miehle 40" - 4 color

10. COMMENTS: Fleet Vela Co. (1) Window Fan is OK

Graphic Technology
PA 387-99 OK

OK for TCO
A.G. 05/25/06

"V" or "E" to 23 Strut

(WP - IPREPORT)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

PREMISES NEAR EQUIPMENT

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

RR 5-14-03

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	386-99Z
Date Inspected:	03/31/2003
Date Issued:	
Expiration Date:	05/12/2006

E.P.#:	1
E.R.:	B
E.N.#:	—

P.E.

—

OWNER

Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11 Street Flr.#: 1st Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of...a Certificate of Operation...from one location to another or from one piece of equipment to another automatically revokes the Certificate. Sec. 24-135 NYC Air Pollution Code.

Description of Installation: Offset printing presses.

Used: 16 Hrs/Day 250 Days/Year

Description of Equipment: One (1) Komori 26" - 6 color; (1) Komori 40" - 6 color; (1) Miehle 40" - 4 color; (1) Heidelberg 40" - 2 color; (1) Heidelberg 20" - 4 color;

Exhaust System: One (1) 36" ± diam. Window Fan, delivering 3,600 C.F.M. @ 70°F.

Control Device: NONE

RECERTIFICATION

Raphael Hodge, P.E.
Director

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date

AR 505-A

A.G./E047
03/31/2003

TCO

PREMISES NEAR EQUIPMENT

Bureau of Air Noise & Hazardous Materials

PROTECTION

INDUSTRIAL PROCESSES SECTION
Field Inspection Report

Date: 03/31/2003
PA#: 386-997
EN#:

Company Name: Graphic Technology, Inc.
Address: 44-02 11 Street Flr#: 1 Boro: Queens
Inspected By: A.S. Plant Rep.: Jack Strong
Equipment Description: Printing Presses
Agreement with Filing? Yes X No Sketch:

Fee is $280.00
Paid: $525.00
Overpaid: $245.00

Conditions Observed:

Emission Point: #1 Receptor Distances: Nuisance/Possibility:

Observed Emissions:
(1) Komori 26" - 6 color
(1) Komori 40" - 6 color
(1) Miehle 40" - 4 color
(1) Heidelberg 40" - 2 color
(1) Heidelberg 20" - 4 color
(1) Window Fan (36" diam (≈3600 C.F.M)

Comments:
OK for TCO
A.S. 03/31/2003

2/10/92
sip

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE, SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	386-99Z
Date Inspected:	05/12/2000
Date Issued:	
Expiration Date:	05/12/2003

E.P.#	1
E.R.:	B
E.N.#:	—

P.E.

Terese M. Kinsley, P.E.
67 Fairwater Avenue
Massapequa, N.Y. 11758

OWNER

Graphic Technology, Inc.
44-02 11th Street
L.I.C., N.Y. 11101

DEP Premise Address: 44-02 11th Street Flr.#: 1st Boro: Queens

CERTIFICATE OF OPERATION

DESCRIPTION OF INSTALLATION: Printing Presses.

USED: 16 HRS/DAY 250 DAYS/YEAR

DESCRIPTION OF EQUIPMENT: Two (2) Komori-Lithrone - 6 color offset printing presses; Two (2) Miehle-Roland - 4 color; one (1) Heidelberg - 2 color, one (1) Heidelberg - 1 color & one (1) Oliver - 2 color press.

EXHAUST EQUIPMENT: Two (2) 4'x4' Window Fans, delivering 11,985 C.F.M. at 70°F, total.

CONTROL DEVICE: NONE

ANY PURPORTED OR ATTEMPTED TRANSFER OF...AN OPERATING CERTIFICATE ...FROM ONE LOCATION TO ANOTHER OR FROM ONE PIECE OF EQUIPMENT TO ANOTHER AUTOMATICALLY REVOKES...THE CERTIFICATE. SEC. 24-135 NEW YORK CITY AIR POLLUTION CONTROL CODE.

R.A. Hodge, P.E.

R.A. Hodge, P.E.,
Deputy Director

Installer

Legalization

a.g.
05/12/2000

APPLICATION FOR RENEWAL OF THIS CERTIFICATE OF OPERATION MUST BE FILED AT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION NO LATER THAN NINETY (90) DAYS PRIOR TO ITS EXPIRATION DATE.

SHOULD SIGNIFICANT NEW SCIENTIFIC EVIDENCE FROM A RECOGNIZED INSTITUTION RESULT IN A DECISION BY DEC THAT LOWER AMBIENT GUIDELINE CONCENTRATIONS MUST BE ESTABLISHED, IT MAY BE NECESSARY TO REDUCE EMISSIONS FROM THIS SOURCE PRIOR TO THE EXPIRATION OF THIS CERTIFICATE TO OPERATE.

- APC 136A -

Should significant scientific evidence from a recognized institution should result in a decision by NYSDEC that lower ambient guideline concentrations must be established, it may be necessary to reduce emissions from this source (s) prior to the expiration of this Triennial Certificate of Operation

a.g./E047
05/25/06

AR 505-A - (REV. 9/02)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107

Christopher O. Ward,
Commissioner

Robert C. Avaltroni,
Deputy Commissioner

Records Control
(718) 595 - 3855

M 6-9-06

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application P.A#:	PA 386-997
Date Inspected:	05/25/2006
Date Issued:	
Expiration Date:	05/12/2009

E.P.#:	1
E.R.:	B

P.E.

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OWNER

Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11th Street Flr.#: 1st Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

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Control Device: NONE

RECERTIFICATION

Raphael Hodge, P.E.,
Director of Engineering
For the Commissioner

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A.G./E047
05/25/06

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	386-99Z
Date Inspected:	03/31/2003
Date Issued:	
Expiration Date:	05/12/2006

E.P.#:	1
E.R.:	B
E.N.#:	—

P.E.

—

OWNER

Graphic Technology, Inc.
44-02 11 Street
Queens, N.Y. 11101

DEP Premise Address: 44-02 11 Street Flr.#: 1st Boro: Queens

TRIENNIAL CERTIFICATE OF OPERATION

The holder of this Certificate is responsible for the use of the equipment in accordance with all applicable requirements and provisions of the New York City Air Pollution Control Code. The Commissioner may suspend or revoke this Certificate for willful or continued violation of the Code. Any purported or attempted transfer of...a Certificate of Operation...from one location to another or from one piece of equipment to another automatically revokes the Certificate. Sec. 24-135 NYC Air Pollution Code.

Description of Installation: Offset printing presses.

Used: 16 Hrs/Day 250 Days/Year

Description of Equipment: One (1) Komori 26" - 6 color; (1) Komori 40" - 6 color; (1) Miehle 40" - 4 color; (1) Heidelberg 40" - 2 color; (1) Heidelberg 20" - 4 color;

Exhaust System: One (1) 36" diam. Window Fan, delivering 3,600 C.F.M. @ 70°F.

Control Device: NONE

RECERTIFICATION

Raphael Hodge, P.E.
Director

Application for Renewal of this Certificate of Operation must be filed at the Department of Environmental Protection no later than ninety (90) days prior to its Expiration Date

AR 505-A

A.G./E047
03/31/2003

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE, SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	386-99Z
Date Inspected:	05/12/2000
Date Issued:	
Expiration Date:	05/12/2003

E.P.#	1
E.R.:	B
E.N.#:	—

P.E.

Terese M. Kinsley, P.E.
67 Fairwater Avenue
Massapequa, N.Y. 11758

OWNER

Graphic Technology, Inc.
44-02 11th Street
L.I.C., N.Y. 11101

DEP Premise Address: 44-02 11th Street. Flr.#: 1st Boro: Queens

CERTIFICATE OF OPERATION

DESCRIPTION OF INSTALLATION: Printing Presses.

USED: 16 HRS/DAY 250 DAYS/YEAR

DESCRIPTION OF EQUIPMENT: Two (2) Komori-Lithrone - 6 color offset printing presses; Two (2) Miehle-Roland - 4 colors; one (1) Heidelberg - 2 color; one (1) Heidelberg - 1 color & one (1) Oliver - 2 color press.

EXHAUST EQUIPMENT: Two (2) 4'x4' Window Fans, delivering 11,985 C.F.M. at 70°F, total.

CONTROL DEVICE: NONE

ANY PURPORTED OR ATTEMPTED TRANSFER OF...AN OPERATING CERTIFICATE ...FROM ONE LOCATION TO ANOTHER OR FROM ONE PIECE OF EQUIPMENT TO ANOTHER AUTOMATICALLY REVOKES...THE CERTIFICATE. SEC. 24-135 NEW YORK CITY AIR POLLUTION CONTROL CODE.

R.A. Hodge, P.E.

R.A. Hodge, P.E.,
Deputy Director

Installer

Legalization

a.g.
05/12/2000

APPLICATION FOR RENEWAL OF THIS CERTIFICATE OF OPERATION MUST BE FILED AT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION NO LATER THAN NINETY (90) DAYS PRIOR TO ITS EXPIRATION DATE.

SHOULD SIGNIFICANT NEW SCIENTIFIC EVIDENCE FROM A RECOGNIZED INSTITUTION RESULT IN A DECISION BY DEC THAT LOWER AMBIENT GUIDELINE CONCENTRATIONS MUST BE ESTABLISHED, IT MAY BE NECESSARY TO REDUCE EMISSIONS FROM THIS SOURCE PRIOR TO THE EXPIRATION OF THIS CERTIFICATE TO OPERATE.

AR 325
REV. 11b/96)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
JOEL A. MIELE, SR., P.E. Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air, Noise & Hazardous Materials

NOTICE OF INSTALLATION DISAPPROVAL

DEP RECORDS CONTROL
2000 JUL 24 P 1:20

(Fee due)

Date: 05/12/2000

Application #: PA 386-997

Terese M. Kinsley, P.E.
67 Fairwater Avenue
Massapequa, N.Y. 11758

Graphic Technology, Inc.
44-02 11th Street
L.I.C., N.Y. 11101

Premise Address: 44-02 11th Street Boro: Queens

An inspection of the installation at the above referenced premise has revealed the following objections which must be corrected to comply with the New York City Air Pollution Control Code. ***Failure to comply with the stated requirements within (60) days from the above date may result in the cancellation of the application and forfeiture of all paid fees as well as Enforcement action against the owner.***

A Certificate of Operation can not be issued until all objections are resolved. To request a re-inspection please complete the Inspection Request form on the reverse side of this Notice, and return to DEP/Records Control Section, 59-17 Junction Boulevard, Corona, New York 11368.

1. Your certificate cannot be released until full payment is received.

2. Application fee: $525.00 (ER "B"; 11,985 C.F.M.)
Amount paid: $280.00
Balanced owed: $245.00

$245 Paid No 358516

A.G. — ENGINEER NAME/NUMBER

Industrial — DIVISION

05/12/2000 — INSPECTION DATE

CO

INDUSTRIAL PROCESSES SECTION

Field Inspection Report

Date: 05/12/2000

PAN: 386-997

ENH:

Company Name: Graphic Technology, Inc.

Address: 44-02 11th Street Flr#: 1st Boro: Queens

Inspected By: A.G. Plant Rep.: Robert Macdonald

Equipment Description: Printing Presses

Agreement with Filing? Yes X No ___ Sketch:

Conditions Observed:

Emission Point: #1 Receptor Distances: ___ Nuisance/Possibility: ___

Observed Emissions: ↓(2) Komori - lithrone - 6 color
↓(2) Miehle - Roland - 4 color
↓(2) Heidelberg - (1) - 2 color
(1) - 4 color
↓(1) Oliver - 2 color
↓(2) Window Fans for general ventilation

Comments: OK for CO
05/12/2000 A.G.

2/10/92
sip

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR RESOURCES
59-17 JUNCTION BLVD., CORONA, NY 11368

(718) 595-3855

NIS 28 1110

The City of New York

INSPECTION REQUEST
(TO BE TYPED OR PRINTED)

280 352385

FEE ENCLOSED: $ 280

DATE: 4/6/00

(PLEASE CHECK)
____CERTIFICATION
____RECERTIFICATION

INSTALLATION #: PA0386992

PREMISE ADDRESS: 44-02 11th Street, Long Island City, Queens, NY 11101 (1st Floor)
(BORO)

I AM REQUESTING ✓ AN INSPECTION OR ____A RE-INSPECTION AT THE ABOVE REFERENCED PREMISE.

I CERTIFY THAT ALL WORK ON THE ABOVE INSTALLATION HAS BEEN COMPLETED IN ACCORDANCE WITH AN APPROVED APPLICATION, PLANS AND AMENDMENT(S). THE EQUIPMENT IS OPERATING PROPERLY AND IS READY FOR FINAL INSPECTION BY THE BUREAU OF AIR RESOURCES. I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN THE ROOM/AREA WHERE THE EQUIPMENT IS LOCATED THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE OF DISAPPROVAL WILL BE ISSUED.

IF THIS IS A REQUEST FOR A RE-INSPECTION: I CERTIFY THAT ALL DEFICIENCIES WHICH RESULTED IN THE ISSUANCE OF AN INSTALLATION DISAPPROVAL HAVE BEEN CORRECTED AS SET FORTH BELOW: NOTE: COMPLETE THE FOLLOWING, ITEM BY ITEM. A RE-INSPECTION WHICH DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION MAY SUBJECT THE APPLICATION TO CANCELLATION.

E.P. 001: Printing: Two(2) Komori-Lithrone Color Offset Presses. Two(2) Mienle Roland, Two(2) Heidelberg & One(1) Oliver Color Offset Presses, Two(2) Cutters & Two(2) Folders.

R E Macdonald
INSTALLER'S SIGNATURE

Vice President (718) 706-7600
TITLE TELEPHONE NO.

Robert E. Macdonald
INSTALLER'S NAME

Graphic Technology, Inc.
OWNER'S NAME

STREET ADDRESS

44-02 11th Street
STREET ADDRESS

CITY STATE ZIP CODE

Long Island City, NY 11101
CITY STATE ZIP CODE

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE, SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DISPLAY CERTIFICATE ON PREMISES NEAR EQUIPMENT
"NOT VALID WITHOUT OFFICIAL SEAL"

Application PA#:	386/99Z
Date Issued:	(NYS DEC)
Date Mailed:	11/22/99
Expiration Date:	05/22/00

E.P.#:	1
E.R.:	B
E.N.#:	—

P.E.
Terese M. Kinsley, P.E.
67 Fairwater Avenue
Massapequa, N.Y. 11758

OWNER
Graphic Technology, Inc.
44-02 11th. Street
L.I.C., N.Y. 11101

DEP Premise Address: 44-02 11th. Street Flr.#: 1 Boro: Queens

NOTICE OF APPLICATION / PLANS APPROVAL
WORK PERMIT

⊗ We are pleased to advise you that your application for legalization of the existing installation has been approved. One set of the approved plans is returned herewith to the filer of record. **NOTE BOTTOM PARAGRAPH.**

○ We are pleased to advise you that your application for a Work Permit for the new installation/alteration has been approved. One set of approved plans is returned herewith to the filer of record. **NOTE BOTTOM PARAGRAPH.**

DESCRIPTION OF INSTALLATION: Printing
Used: 16 Hrs/Day 250 Days/Year

DESCRIPTION EQUIPMENT: Two (2) Komori-Lithrone Color Offset Presses; Two (2) Miehle Roland, Two (2) Heidelberg and One (1) Oliver Color Offset Presses; Two (2) Cutters and Two (2) Folders.

EXHAUST EQUIPMENT: Two (2) 4'x4' Window Fans, to exhaust 11,985 CFM at 70°F, total.

CONTROL EQUIPMENT: None.

This permit is issued pursuant to a Certification by the professional engineer of record, acting as designated agent for the equipment owner, that all documents submitted in connection with this application are completed and fully comply with all applicable laws, codes, rules, regulations, and directives of the Department of Environmental Protection of the City of New York in effect at the time filed.

No person shall cause or permit the use or operation of equipment or apparatus for which an installation or alteration permit is required, without first obtaining an Operating Certificate. Any purported or attempted transfer of this permit automatically revokes the permit, pursuant to the New York City Air Pollution Control Code.

To obtain a Certificate of Operation, a written request for an inspection must be made to this Division on Form# AR365, accompanied by a fee per LL55/80. This must be done within thirty (30) days after receipt of approval for legalization, or completion of a new or altered installation.

Installer
Legalization

R. Hodge, P.E.
Raphael A. Hodge, P.E.,
Director of Engineering
For the Commissioner
EOST (AP) 10/15/99

WORK PERMIT

SCRN: BARSSNI1
TERM: 3090

DEPT OF ENVIRONMENTAL PROTECTION
NOTICE MENU SCREEN
(718) 595-3855
BUREAU OF AIR RESOURCES
59-17 JUNCTION BLVD., CORONA, N.Y. 11368
RECORD CONTROL

DATE: 11/22/99
TIME: 15:07:51

JOEL A. MIELE SR., P.E.
Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

FACILITY NO.: 4 XA5N
INSTALLATION: PA038699Z
EXPIRES ON: 05/22/00

PE:
TERESE M.KINSLEY
67 FAIRWATER AVE
MASSAPEQUA NY 11758

OWNER:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

PREMISES ADDRESS:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

FLOOR: 1
BORO: QUEENS

CMD: _____ MSG:
SCRN: BARSSAEF
TERM: 3090

DEPT OF ENVIRONMENTAL PROTECTION
APPLICATION ENTRY/UPDATE - PAGE 6 OF 9
WORK PERMITS - INDUSTRIAL

DATE: 11/22/99
TIME: 15:08:25

INSTALLATION NUMBER: PA038699Z

DESCR OF PROCESS/ INSTLATN
1 PRINTING:TWO(2)KOMORI-LITHRONE COLOR OFFSET PRESSES,
2 TWO(2)MIEHLE ROLAND,TWO(2)HEIDELBERG & ONE(1)OLIVER
3 COLOR OFFSET PRESSES,TWO(2)CUTTERS & TWO(2)FOLDER.
4 EXHAUST EQUIP:TWO(2)4'X 4'WINDOW FANS,TO EXHAUST 11,985
5 CFM AT 70 DEGREE TOTAL.
6 CONTROL EQUIP: NONE
7 E.P:#1; E.R:B
8 _____

SOURCE CODE: A1302 NUMBER OF IDENTICAL UNITS: 1

AVERAGE USE: HRS/DAY: 16.0 DAYS/YR: 250
% OPER BY SEASON: WINTER: 25 SPRING: 25 SUMMER: 25 FALL: 25

FUEL: TYPE: __ ANNUAL CONSUMPTION: ____._
% SULFUR: _.__ -OR- BTU/CF: ____

APPLICABLE RULE 1: 212.00 APPLICABLE RULE 2: 228.00

CMD: _____ MSG:

V

DISPLAY THIS WORK PERMIT NEAR EQUIPMENT

THIS PERMIT FOR INSTALLATION OR ALTERATION OF EQUIPMENT IS ISSUED PURSUANT TO THE NEW YORK CITY POLLUTION CONTROL CODE. IT MAY NOT BE TRANSFERRED TO ANY OTHER EQUIPMENT.

EQUIPMENT MAY NOT BE OPERATED EXCEPT FOR TESTING NOT EXCEEDING THIRTY (30) DAYS WITHOUT FIRST OBTAINING A CERTIFICATE OF OPERATION.

R.A. HODGE, P.E.
DIRECTOR OF ENGINEERING

(March 5, 1999)
(Workperwpd)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

Date: September 21, 1999

INSPECTION SET

(Installation Number)

(EN Number)

Re: 44-02 11th Street, Long Island City, Queens, NY 11101 (1st floor)
(Premise Address) (Boro)

PROFESSIONAL CERTIFICATION

Being duly mindful of my responsibilities as a Licensed Professional Engineer in the State of New York and acting as Designated Agent for the applicant, I hereby certify that the application, plans and all supplementary documents submitted in connection with this filing are complete and fully comply with all applicable laws, codes, rules, regulations and directives of the Department of Environmental Protection, Bureau of Air, Noise & Hazardous Materials of the City of New York in effect at the time filed.

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley
P.E. Seal & Signature

FOR DEP USE ONLY	

Company Name of Installer: Graphic Technology, Inc.

Company Address: 44-02 11th Street.

Town or Boro Long Island City State: NY Zip: 11101

Installer's Name: Robert E. Macdonald Title: Vice President

Installer's Signature: Robert E. Macdonald

OP LOCATION FACILITY EMISSION POINT
A 6 3 0 0 0 X A S N 0 0 0 1 1

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INSPECTION SET

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AI
WHITE - REGIONAL OFFIC
WHITE - FIELD REP.
YELLOW - APPLICANT

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City | 4. STATE: NY | 5. ZIP: 11101
6. OWNER CLASSIFICATON: A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE F. ☐ MUNICIPAL H. ☐ HOSPITAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President | 8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT | 10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE | 13. STATE | 14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE | 16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1 | 17. TELEPHONE: (516) 248-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City | 22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02 | 24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: 04 / 99 (MO / YR) | 26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE C. ☒ EXISTING SOURCE B. ☐ MODIFICATION

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
0001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON: Winter	Spring	Summer	Fall
1302	16	250	25	25	25	25

SECTION C

41. DESCRIBE PROCESS OR UNIT:
1. All Equipment Located on 1st Floor is Vented to room - No Ductwork. Windows located
3. Along Building Walls & (2) 4'x4' Window Fans.
4. Equipment: Two Komori-Lithrone Color Offset
5. Presses; (2) Miehle Roland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
7. & (2) Folders.

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 1 of 3

STATE OF NEW YORK TERESE MARIE KINSLEY LICENSED PROFESSIONAL ENGINEER NO. 066714

Terese M. Kinsley

SECTION F

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) 10*	ANNUAL EMISSIONS (LBS/YR) PERMISSIB
54. 2-Butoxyethanol	55. 111-76-2	56.	57.	58. B	59. 0.405	60. 1	61. 6	62. .405	63. 0	64. 0.405	65. 0.405	66. 1.62	67. 3	68. 1.62
69. Acetic Acid	70. 64-19-7	71.	72.	73. C	74. 0.026	75. 1	76. 6	77. .026	78. 0	79. 0.026	80. 0.026	81. 1.04	82. 2	83. 1.04
84. Aliphatic Petrol. Distill.	85. 64741-41-9	86.	87.	88. B	89. 0.928	90. 1	91. 6	92. .928	93. 0	94. 0.928	95. 0.928	96. 3.71	97. 3	98. 3.71
99. Nonylphenoxypoly-Eth.	100. 9016-45-9	101.	102.	103. B	104. 0.115	105. 1	106. 6	107. .115	108. 0	109. 0.115	110. 0.115	111. 4.60	112. 2	113. 4.60
114. Propylene Glycol Mono Meth	115. 108-65-6	116.	117.	118. B	119. 0.012	120. 1	121. 6	122. .012	123. 0	124. 0.012	125. 0.012	126. 4.69	127. 1	128. 4.69
129. Aliphatic Petrol. Distill.	130. 64742-48-9	131.	132.	133. B	134. 0.119	135. 1	136. 6	137. .119	138. 0	139. 0.119	140. 0.119	141. 4.74	142. 2	143. 4.74

SECTION G

SOLID FUEL TYPE	SOLID FUEL TONS / YR	SOLID FUEL % S	LIQUID FUEL TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	LIQUID FUEL % S	GAS TYPE	GAS THOUSANDS OF CF/YR	GAS BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT | DATE: 9/29/99

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY
6 3 0 0 0 6	X A 5 N	5 8 8 3 5	1 1 4 3	2 7 5 2	09/29/99	10/15/99	Alison D. Heeghsay

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

*3110

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT. CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS:
1. PA-386-99Z
2. EDSI (AP)
3.
4.
5.
6.

OP LOCATION FACILITY EMISSION POINT
A 6 3 0000 X A.SN I 0001 1

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INSPECTION SET

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City
4. STATE: NY
5. ZIP: 11101
6. OWNER CLASSIFICATON: A. ☐ COMMERCIAL C. ☐ UTILITY F. ☐ MUNICIPAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER E. ☐ STATE H. ☐ HOSPITAL
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President
8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT
10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE
13. STATE
14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1
17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City
22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02
24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: 04 / 99 (MO / YR)
26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE B. ☐ MODIFICATION C. ☒ EXISTING SOURCE

SEC. B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
P0001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON Winter	Spring	Summer	Fall
1302	16	250	25	25	25	25

SEC. C

41. DESCRIBE PROCESS OR UNIT:

All Equipment Located on 1st Floor is vented to room - No Ductwork. Windows located Along Building Walls & (2) 4'x4' Window Fans. Equipment: Two Komori-Lithrone Color Offset Presses; (2) Miehle Poland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters & (2) Folders.

SEC. D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 1 of 3

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

{(2) folders.

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 1 of 3

STATE OF NEW YORK — TERESE MARIE KINSLEY — No. 085774 — LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) 10^	ANNUAL EMISSIONS (LBS/YR) PERMISSIB
54. 2-Butoxyethanol	55. 111-76-2	56.	57.	58. B	59. 0.405	60. 1	61. 6	62. .405	63. 0	64. 0.405	65. 0.405	66. 1.62	67. 3	68. 1.62
69. Acetic Acid	70. 64-19-7	71.	72.	73. C	74. 0.026	75. 1	76. 6	77. .026	78. 0	79. 0.026	80. 0.026	81. 1.04	82. 2	83. 1.04
84. Aliphatic Petrol. Distill.	85. 64741-41-9	86.	87.	88. B	89. 0.928	90. 1	91. 6	92. .928	93. 0	94. 0.928	95. 0.928	96. 3.71	97. 3	98. 3.71
99. Nonylphenoxypoly-Eth.	100. 9016-45-9	101.	102.	103. B	104. 0.115	105. 1	106. 6	107. .115	108. 0	109. 0.115	110. 0.115	111. 4.60	112. 2	113. 4.60
114. Propylene Glycol Mono Meth	115. 108-65-6	116.	117.	118. B	119. 0.012	120. 1	121. 6	122. .012	123. 0	124. 0.012	125. 0.012	126. 4.69	127. 1	128. 4.69
129. Aliphatic Petrol. Distill.	130. 64742-48-9	131.	132.	133. B	134. 0.119	135. 1	136. 6	137. .119	138. 0	139. 0.119	140. 0.119	141. 4.74	142. 2	143. 4.74

SECTION F

SECTION G	TYPE	SOLID FUEL TONS / YR	% S	TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	% S	TYPE	GAS THOUSANDS OF CF/YR	BTU/CF
	144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT — DATE 9/29/99

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
6300	XA5N	588351	1327	52	09/29/99	10/15/99	Alison D. Pellegrini

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

*311D

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS:

1. PA-386-99Z	2. E005 (AP)
3.	4.
5.	6.
7.	

OP | LOCATION | FACILITY | EMISSION POINT | 1

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INSP[illegible] SET

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AI
WHITE - REGIONAL OFFIC
WHITE - FIELD REP.
YELLOW - APPLICANT

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City
4. STATE: NY
5. ZIP: 11101
6. OWNER CLASSIFICATON: A ☐ COMMERCIAL C ☐ UTILITY E ☐ STATE F ☐ MUNICIPAL H ☐ HOSPITAL I ☐ RESIDENTIAL B ☒ INDUSTRIAL D ☐ FEDERAL G ☐ EDUC. INST. J ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald. Vice President
8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT
10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE
13. STATE
14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1
17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City
22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02
24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: MO 04 / YR 99
26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A ☐ NEW SOURCE B ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A ☐ NEW SOURCE C ☒ EXISTING SOURCE B ☐ MODIFICATION

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP. (°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
0001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON Winter	Spring	Summer	Fall
	16	250	25	25	25	25

SECTION C

41. DESCRIBE PROCESS OR UNIT:
1. All Equipment Located on 1st Floor is Vented to room - No Ductwork. Windows located
3. Along Building Walls & (2) 4'x4' Window Fans.
4. Equipment: Two Komori-Lithrone Color Offset
5. Presses; (2) Miehle Poland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
7. & (2) Folders.
2.
6.
8.

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 2 of 3

STATE OF NEW YORK
TERESE MARIE KINSLEY
LICENSED PROFESSIONAL ENGINEER
No. 066714

Terese M. Kinsley

SECTION F

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV. RATING	EMISSIONS ACTUAL	UNIT	HOW DET.	PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	10*	PERMISSIBLE
54. Aromatic Petrol. Distill.	64742-95-6	56.	57.	58. B	59. 0.909	60. 1	61. 6	62. .909	63. 0	64. 0.909	65. 0.909	66. 3.63	67. 3	68. 3.63
69. Isopropanol 99%	67-63-0	71.	72.	73. B	74. 0.249	75. 1	76. 6	77. .249	78. 0	79. 0.249	80. 0.249	81. 9.94	82. 2	83. 9.94
84. Aliphatic Petrol. Distill.	64742-88-7	86.	87.	88. B	89. 0.052	90. 1	91. 6	92. .052	93. 0	94. 0.052	95. 0.052	96. 2.06	97. 2	98. 2.06
99. Aromatic Petrol. Distill.	64742-94-5	101.	102.	103. B	104. 0.014	105. 1	106. 6	107. .014	108. 0	109. 0.014	110. 0.014	111. 5.62	112. 1	113. 5.62
114. Diethanolamine Oleate	93-83-4	116.	117.	118. C	119. 0.014	120. 1	121. 6	122. .014	123. 0	124. 0.014	125. 0.014	126. 5.62	127. 1	128. 5.62
129. Triethanolamine Benzene	1886-81-3	131.	132.	133. B	134. 0.005	135. 1	136. 6	137. .005	138. 0	139. 0.005	140. 0.005	141. 1.87	142. 1	143. 1.87

SECTION G

SOLID FUEL TYPE	SOLID FUEL TONS / YR	% S	LIQUID FUEL TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	% S	GAS TYPE	GAS THOUSANDS OF CF/YR	BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Robert Macdonald — DATE: 9/23/98

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
					/ /	/ /	

AGENCY USE ONLY

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS

1. 2. 3. 4. 5. 6. 7. 8.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AI
WHITE - REGIONAL OFFIC
WHITE - FIELD REP
YELLOW - APPLICANT

OP | LOCATION | FACILITY | EMISSION POINT | I

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
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3. CITY - TOWN - VILLAGE: Long Island City | 4. STATE: NY | 5. ZIP: 11101
6. OWNER CLASSIFICATON: A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE F. ☐ MUNICIPAL H. ☐ HOSPITAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President | 8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT: INSPECTION SET | 10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE | 13. STATE | 14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE | 16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1 | 17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City | 22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02 | 24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: 04 / 99 (MO / YR) | 26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE C. ☒ EXISTING SOURCE B. ☐ MODIFICATION

SEC. B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
P0001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON: Winter	Spring	Summer	Fa
	16	250	25	25	25	2

SEC. C

41. DESCRIBE PROCESS OR UNIT:
1. All Equipment Located on 1st Floor is vented to room - No Ductwork. Windows located
2.
3. Along Building Walls & (2) 4'x4' Window Fans. Equipment: Two Komori-Lithrone Color Offset
4.
5. Presses; (2) Miehle Poland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
6.
7. & (2) Folders.
8.

SEC. D

42. EMISSION CONTROL EQUIPMENT I.D.	43. CONTROL TYPE	44. MANUFACTURER'S NAME AND MODEL NUMBER	45. DISPOSAL METHOD	46. DATE INSTALLED MONTH / YEAR	47. USEFUL LIFE
	99	None		/	
48.	49.	50.	51.	52. /	53.

SEC. E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 3 of 3

STATE OF NEW YORK — TERESE MARIE KINSLEY — LICENSED PROFESSIONAL ENGINEER — No. 066714

Terese M. Kinsley

SEC. F

54. CONTAMINANT NAME	55. CAS NUMBER	56. INPUT OR PRODUCTION	57. UNIT	58. ENV. RATING	59. EMISSIONS ACTUAL	60. UNIT	61. HOW DET.	62. PERMISSIBLE	63. % CONTROL EFFIC'CY	64. HOURLY EMISSIONS (LBS/HR) ERP	65. ACTUAL	66. ANNUAL EMISSIONS (LBS/YR) ACTUAL	67. 10*	68. PERMISSI
Acetone	67-64-1			C	0.486	1	6	.486	0	0.486	0.486	1.94	3	1.94
Aliphatic Petrol Distill.	64742-89-8			B	0.398	1	6	.398	0	0.398	0.398	1.59	3	1.59
Methylene Chloride	75-09-2			B	0.087	1	6	.087	0	0.087	0.087	3.46	2	3.46
Xylene	1330-20-7			B	0.019	1	6	.019	0	0.019	0.019	7.41	1	7.41
Misc. VOCs	NY998-00-0			B	0.262	1	6	.262	0	0.262	0.262	1.05	3	1.05

SEC. G

144. SOLID FUEL TYPE	145. TONS / YR	146. % S	147. LIQUID FUEL TYPE	148. THOUSANDS OF GALLONS/YR	149. % S	150. GAS TYPE	151. THOUSANDS OF CF/YR	152. BTU/CF

153. APPLICABLE RULE	154. APPLICABLE RULE
212	228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Robert Macdonald | DATE: 9/23/98

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
					/ /	/ /	

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

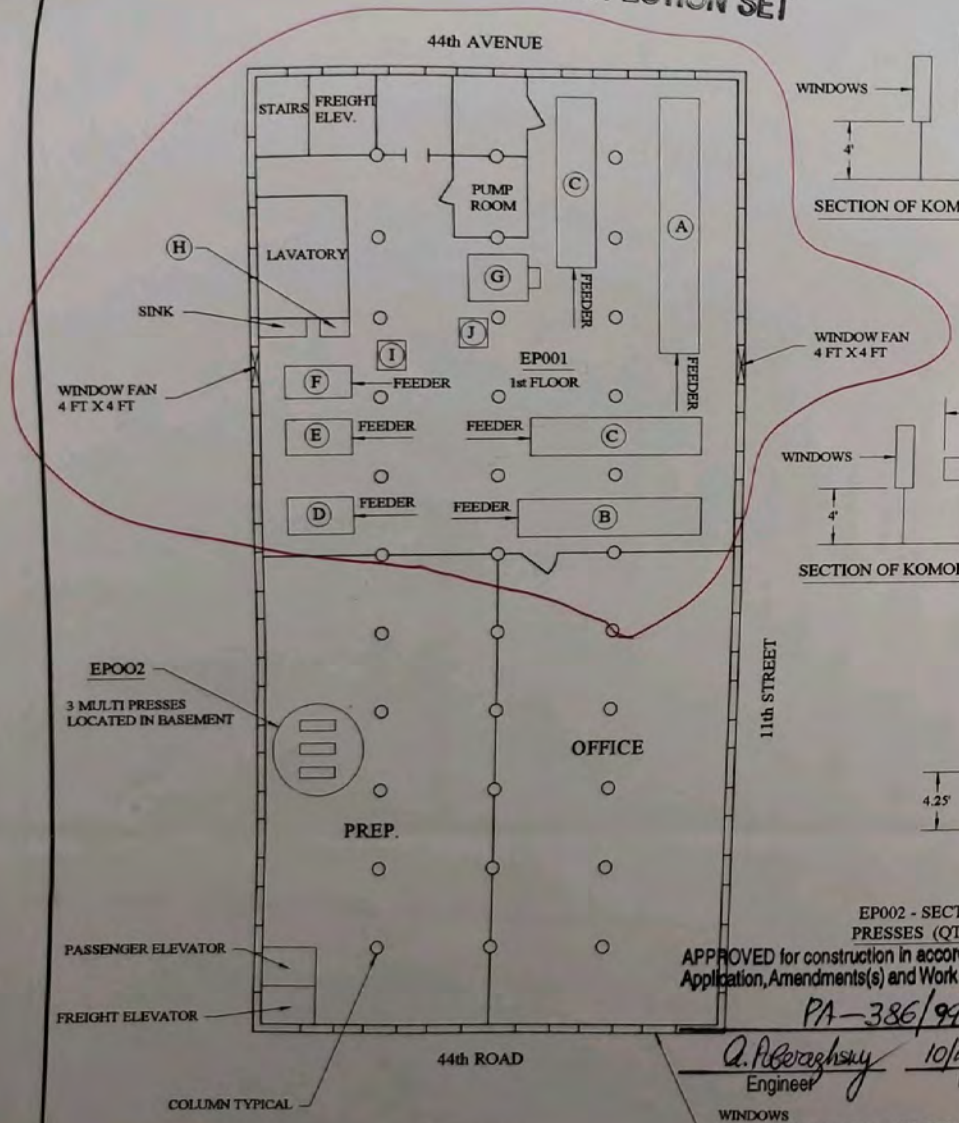
CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

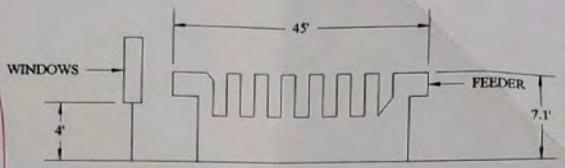
173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS
1. 2.
3. 4.
5. 6.

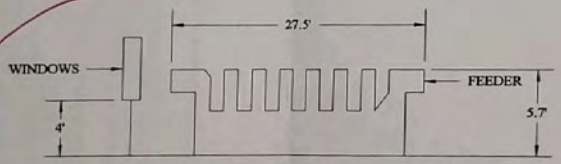
INSPECTION SET



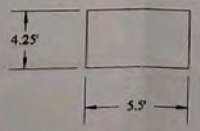
FLOOR PLAN



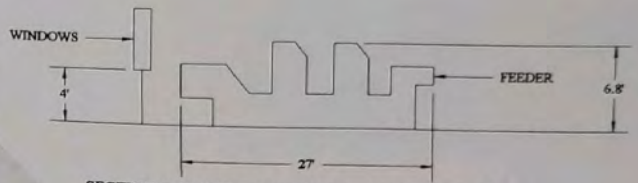
SECTION OF KOMORI LITHRONE 40" - 6 COLOR + COATER



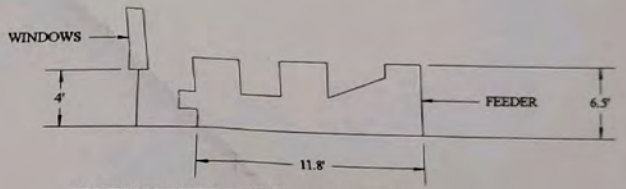
SECTION OF KOMORI LITHRONE 26" - 6 COLOR WATERLESS



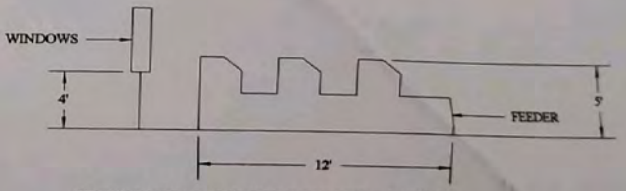
EP002 - SECTION OF MULTI DUPLICATOR PRESSES (QTY 3) LOCATED IN BASEMENT



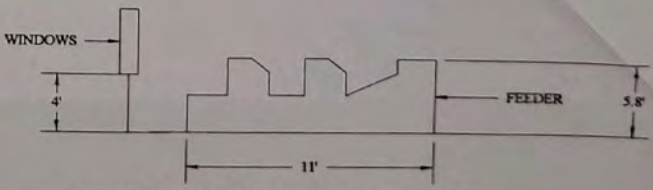
SECTION OF MIEHLE ROLAND 40" - 4 COLOR (QTY 2)



SECTION OF HEIDELBERG 40" - 2 COLOR



SECTION OF HEIDELBERG 20" GTO - 4 COLOR



SECTION OF OLIVER-272 SAKURAI 28" - 2 COLOR

APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.
PA-386/99Z
Q. Abrazhevsky Engineer 10/15/99 Date

STATE OF NEW YORK TERESE MARIE KINSLEY No. 066714 LICENSED PROFESSIONAL ENGINEER

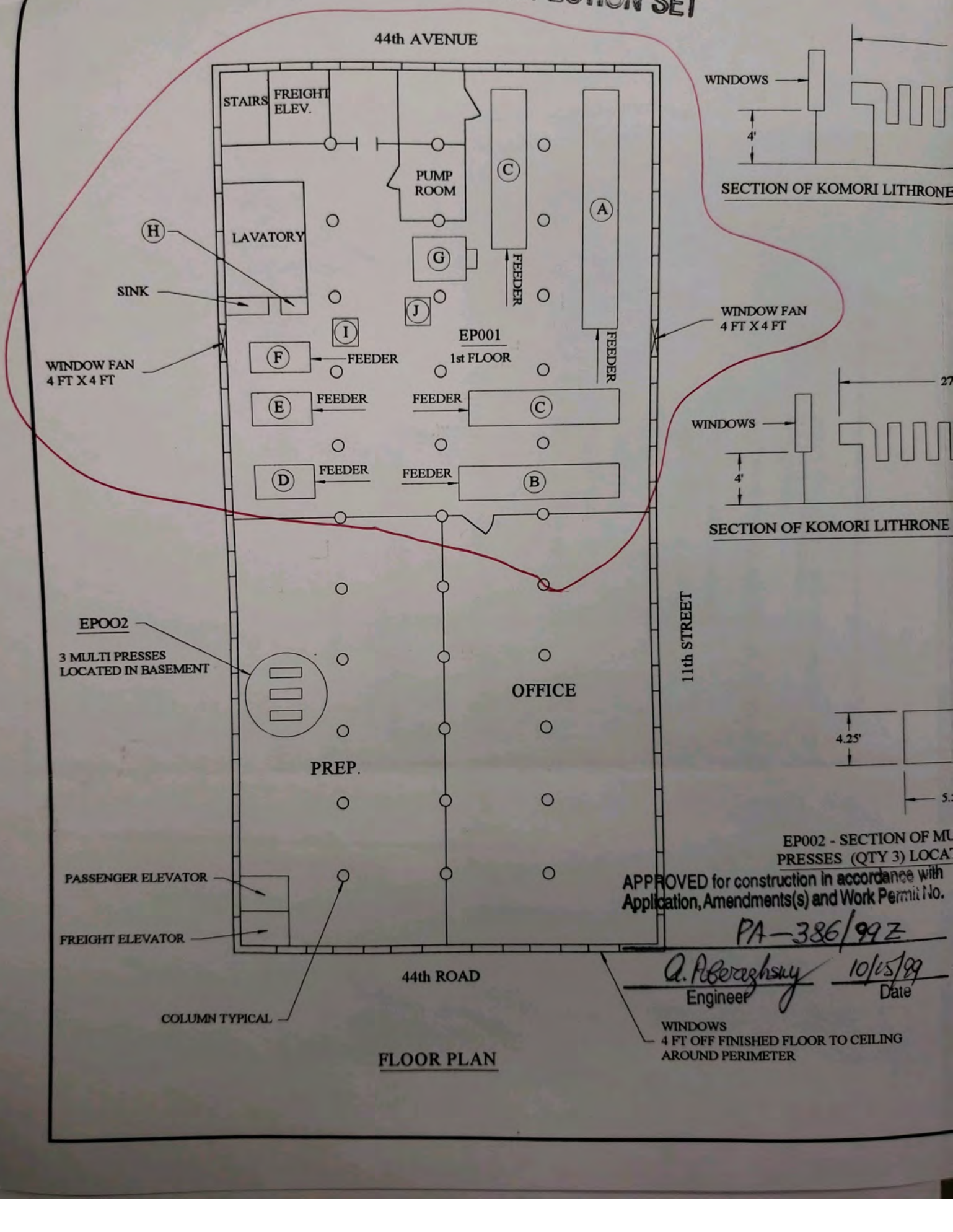
Terese M. Kinsley

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

SEPTEMBER, 1999
1
SHEET 2 OF 2
SCALE: NONE

INSPECTION SET



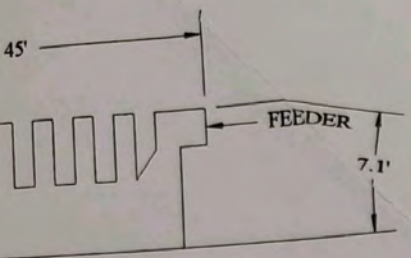
APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.

PA-386/99Z

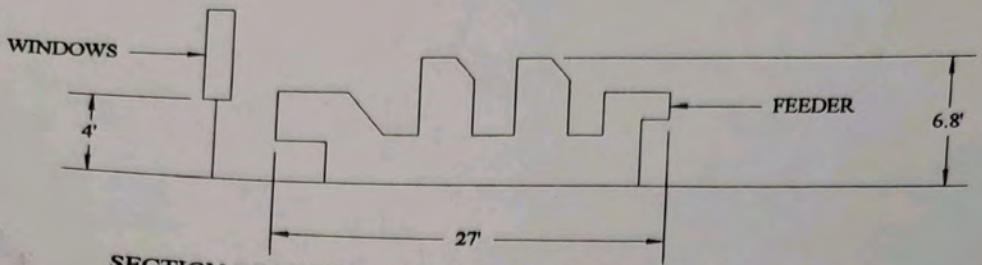
A. Abrazhsky
Engineer

10/15/99
Date

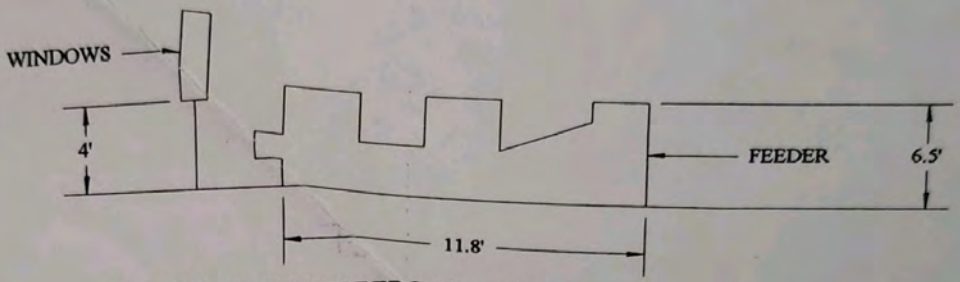
FLOOR PLAN



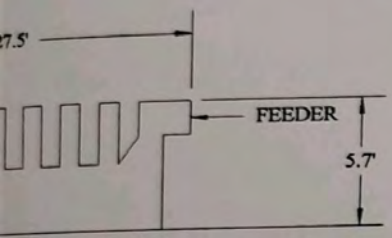
E 40" - 6 COLOR + COATER



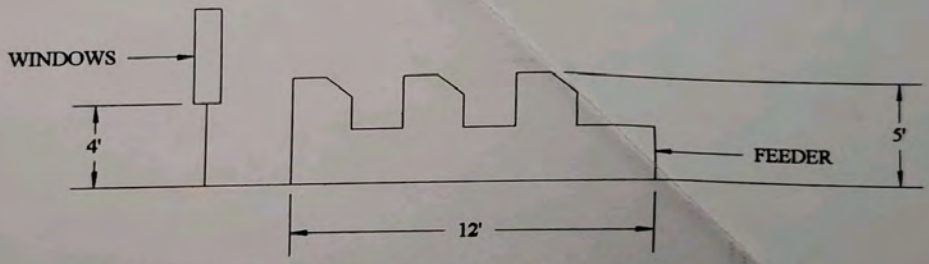
SECTION OF MIEHLE ROLAND 40" - 4 COLOR (QTY 2)



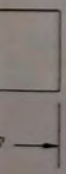
SECTION OF HEIDELBERG 40" - 2 COLOR



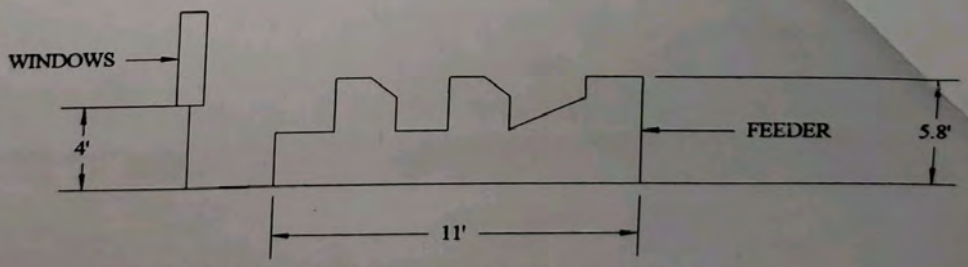
26" - 6 COLOR WATERLESS



SECTION OF HEIDELBERG 20" GTO - 4 COLOR



LTI DUPLICATOR
ED IN BASEMENT



SECTION OF OLIVER-272 SAKURAI 28" - 2 COLOR



Terese M. Kunsley

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

SEPTEMBER, 1999

1

SHEET 2 OF 2

SCALE: NONE

INSPECTION SET

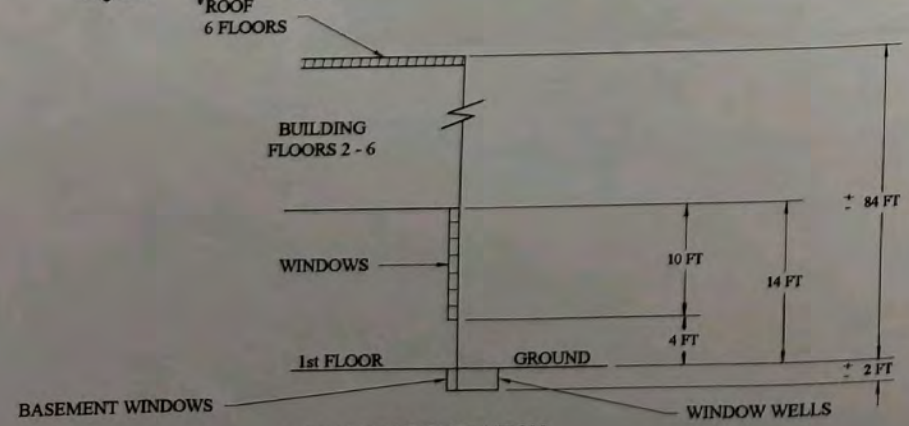


APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.

PA-386/99Z

Engineer 10/15/99 Date

PLOT PLAN



BUILDING ELEVATION

NOTES:

1. EP001 = ALL EQUIPMENT LOCATED AT 44-02 11th STREET ON THE FIRST FLOOR IS VENTED TO THE ROOM. WINDOWS ARE LOCATED ALONG THE BUILDING WALLS. ROOM IS VENTED THROUGH TWO 4 FT X 4 FT WINDOW FANS: 1 Hp, 1 PHASE, 11,985 CFM. THERE IS NO DUCTWORK.
2. THE FOLLOWING PROCESS EQUIPMENT IS LOCATED AT GRAPHIC TECHNOLOGY, INC., 44-02 11th STREET ON THE FIRST FLOOR, KNOWN AS EP001:
   - (A) KOMORI - LITHRONE 40" - 6 COLOR + COATER OFFSET PRESS: 45'L X 7.3'W X 7.1'H.
   - (B) KOMORI - LITHRONE 26" - 6 COLOR WATERLESS OFFSET PRESS: 27.5'L X 4'W X 5.7'H.
   - (C) 2 - MIEHLE ROLAND 40" - 4 COLOR OFFSET PRESSES: EACH 27'L X 6'W X 6.8'H.
   - (D) HEIDELBERG 40" - 2 COLOR OFFSET PRESS: 11.8'L X 5.3'W X 6.5'H.
   - (E) HEIDELBERG 20" GTO - 4 COLOR OFFSET PRESS: 12'L X 3.3'W X 5'H.
   - (F) OLIVER - 272 SAKURAI 28" - 2 COLOR OFFSET PRESS: 11'L X 4.5'W X 5.8'H.
   - (G) CUTTER: 6'L X 6.7'W X 5.7'H.
   - (H) CUTTER: 5'L X 5.5'W X 4.2'H.
   - (I) FOLDER: 8'L X 2.5'W X 4.8'H.
   - (J) FOLDER: 9'L X 3'W X 4'H.
3. EP002 = THREE DUPLICATOR MULTI PRESSES LOCATED IN THE BASEMENT VENTED TO ROOM. EACH 11 X 17 MULTI PRESS IS 5.5 FT LONG X 2 FT WIDE X 4.25 FT HIGH. WINDOWS IN THE BASEMENT ARE BELOW GRADE IN WINDOW WELLS.
4. THIS PROPERTY IS LOCATED IN THE BOROUGH OF QUEENS, BLOCK 449, LOT 13, ZONING M3-1.



KEY MAP

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

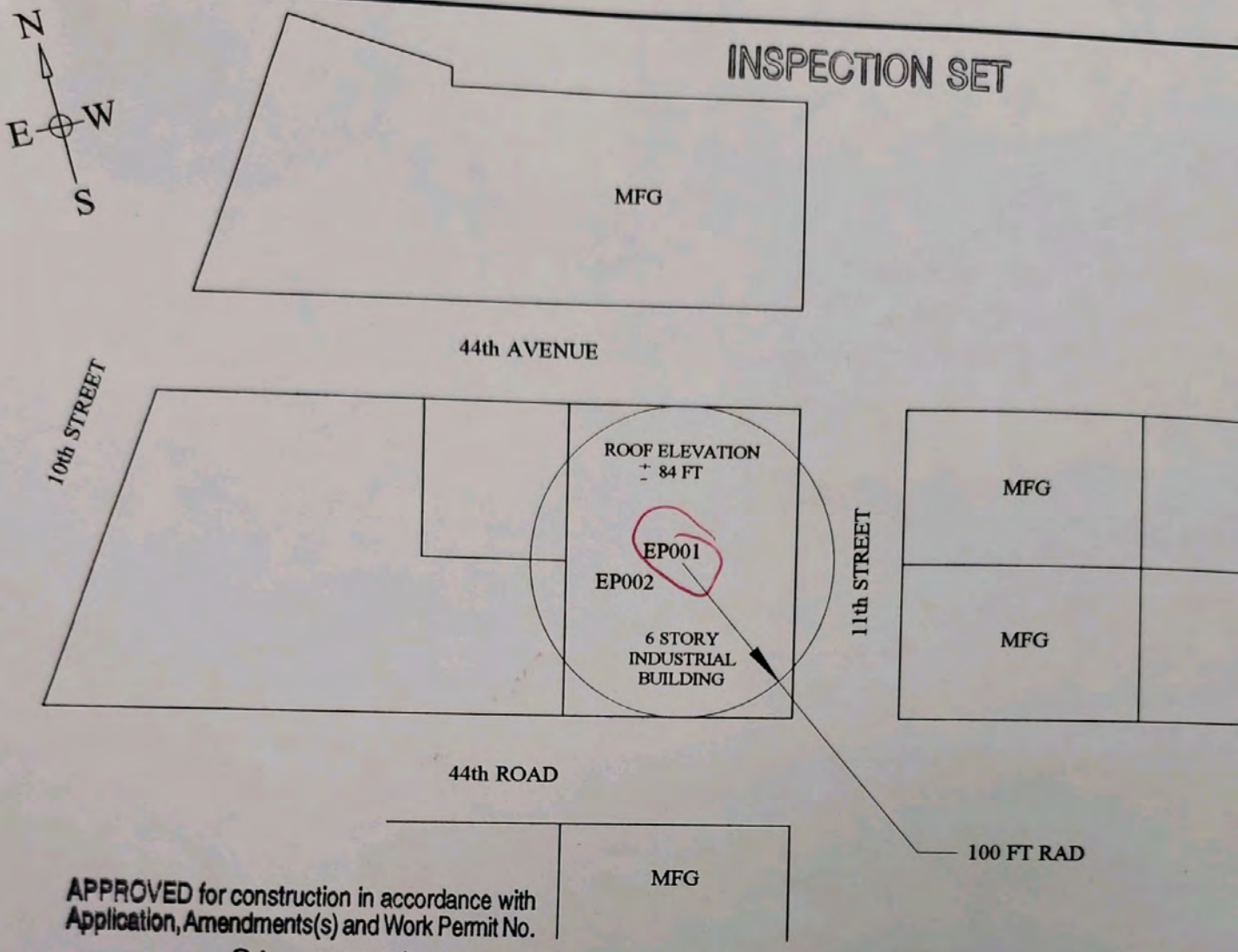
SEPTEMBER, 1999

1

SHEET 1 OF 2

SCALE: NONE

INSPECTION SET



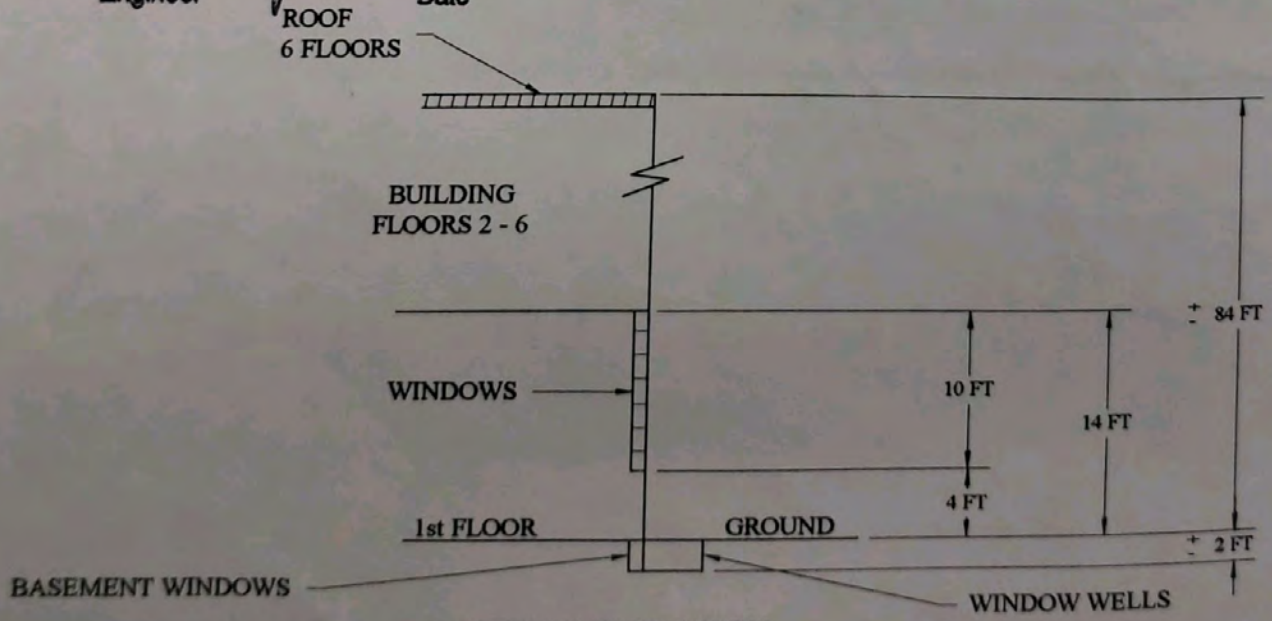
APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.

PA-386/99Z

A. Bloszhsky 10/15/99

Engineer Date

PLOT PLAN



BUILDING ELEVATION

NOTES:

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   (A) KOMORI - LITHRONE 40" - 6 COLOR + COATER OFFSET PRESS: 45'L X 7.3'W X 7.1'H.

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   (C) 2 - MIEHLE ROLAND 40" - 4 COLOR OFFSET PRESSES: EACH 27'L X 6'W X 6.8'H.

   (D) HEIDELBERG 40" - 2 COLOR OFFSET PRESS: 11.8'L X 5.3'W X 6.5'H.

   (E) HEIDELBERG 20" GTO - 4 COLOR OFFSET PRESS: 12'L X 3.3'W X 5'H.

   (F) OLIVER - 272 SAKURAI 28" - 2 COLOR OFFSET PRESS: 11'L X 4.5'W X 5.8'H.

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4. THIS PROPERTY IS LOCATED IN THE BOROUGH OF QUEENS, BLOCK 449, LOT 13, ZONING M3-1.



KEY MAP

STATE OF NEW YORK
TERESE MARIE KUKSTEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kuksty

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

SEPTEMBER, 1999

1

SHEET 1 OF 2

SCALE: NONE

SCRN: BARSSNI1
TERM: 0961

DEPT OF ENVIRONMENTAL PROTECTION
NOTICE MENU SCREEN D-10-21-99

DATE: 10/20/99
TIME: 16:25:17

AM

BUREAU OF AIR RESOURCES
59-17 JUNCTION BLVD., CORONA, N.Y. 11368
RECORD CONTROL

FEE DEFICIENCY

FACILITY NO.: 4 XA5N
INSTALLATION: PA0386992
EXPIRES ON: N/A

OWNER:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

342041

Amt 275

PREMISES ADDRESS:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

FLOOR: 1
BORO: QUEENS

CMD: MSG:
SCRN: BARSSNI3
TERM: 0961
INSTALLATION: PA0386992

DEPT OF ENVIRONMENTAL PROTECTION
PARAGRAPH COMPOSITION SCREEN

DATE: 10/20/99
TIME: 16:25:26

ON THE NOTICE, THIS WILL BE TEXT ITEM 01

THIS IS TO NOTIFY YOU THAT THERE IS A BALANCE DUE ON THE ABOVE REFERENCED APPLICATION IN THE AMOUNT OF:$ 275.00 . YOUR CERTIFICATE, REGISTRATION, OR WORK PERMIT CAN NOT BE RELEASED UNTIL FULL PAYMENT IS RECEIVED.

PLEASE MAKE YOUR CHECK OR MONEY ORDER PAYABLE TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SEND IT TO THE BUREAU OF AIR RESOURCES, 59-17 JUNCTION BLVD. 9TH FLR., CORONA, NY 11368 WITHOUT DELAY. IT IS A VIOLATION OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK, TITLE 24 TO OPERATE SUCH EQUIPMENT WITHOUT A VALID CERTIFICATE.

APPLICATION FEE:$ 525.00 (ENV. RATING: "B"; CFM 5,001 THRU 20,000)
AMOUNT PAID:$ 250.00
BALANCE DUE:$ 275.00

PLEASE REFER TO THE FEE SCHEDULE ON THE REVERSE SIDE OF THIS NOTICE.
ATTENTION:THIS NOTICE MUST BE RETURNED WITH YOUR PAYMENT.

ENTER 'X' TO ADD THIS TEXT ITEM TO THE NOTICE.
LOOK AGAIN AT TEXT ITEM __

CMD: _____ MSG:

Graphic Technology
(1)

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/01/99

ORIGINAL-KEEP IN FILE

ANCHOR LITHKEMKO
50 INDUSTRIAL LOOP NORTH
ORANGE PARK, FL 32073

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS.
TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHEMTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: ARS-JP
PRODUCT NUMBER: 2873
DOT PROPER SHIPPING NAME: NOT REGULATED
ARS-JP
DOT NUMBER: NONE
DATE OF LAST MSDS SHIPMENT: 1/31/95
MSDS PREPARED BY: L.M.ANDERSON

HMIS INFORMATION: HEALTH - 1 FLAMMABILITY - 1
REACTIVITY - 0 PERSONAL PROTECTIVE EQUIPMENT - B

HAZARD INDEX: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST
SAFETY GLASSES & GLOVES

SECTION II HAZARDOUS INGREDIENTS

----- INGREDIENT ----- MATERIAL DESCRIPTION	CAS#	% BY WT.	ACGIH TLV(TWA) PPM	OSHA PEL PPM	OTHER LIMITS
SOLVENT EB (SYN.: 2-BUTOXYETHANOL)	/111-76-2	/ 54.15	/ 25.00/	25.00/	/ACGIH - SKIN /OSHA - SKIN /NIOSH - 5 PPM: /FOR 10 HR DAY, /40 HR WORK WEEK

ORIGINAL-KEEP IN FILE

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****
THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED BY NTP, IARC OR OSHA-Z IN THE OTHER LIMITS COLUMN.
****

SECTION III PHYSICAL DATA

BOILING RANGE: HIGH- 340.0 F LOW- 212.0 F
VAPOR PRESSURE: 8.64 MMHG @68 F
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN BUTYL ACETATE
WEIGHT LBS./GAL.: 7.9
METHOD 24 VOC: 6.64 LBS./GAL.
PHYSICAL STATE: LIQUID
APPEARANCE: COLORLESS
ODOR: MILD SOLVENT
PH: N/A
WATER SOLUBILITY: 100%
CALIFORNIA SCAQMD RULE 102: NONPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: NONE
FLASHPOINT TCC: GREATER THAN 200 DEGREES F.

EXTINGUISHING MEDIA: USE FOAM, CO2, OR DRY CHEMICAL FIRE APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: REMOVE VICTIM TO FRESH AIR.

INGESTION: INDUCE VOMITING AND SEEK MEDICAL ATTENTION IMMEDIATELY.

ORIGINAL-KEEP IN FILE

ARS-JP

****

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT MAY RESULT IN DERMATITIS. MAY BE ABSORBED THROUGH SKIN.

INHALATION: NO SYMPTOMS NORMALLY SEEN WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PRIMARY ROUTES OF ENTRY: SKIN AND/OR EYE CONTACT.

SYSTEMIC EFFECTS AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO SOLVENT EB IN HIGH CONCENTRATIONS HAS CAUSED ANEMIA, LIVER AND BLOOD ABNORMALITIES, AND KIDNEY AND LUNG DAMAGE IN LABORATORY ANIMALS; MAY CAUSE MATERNAL TOXICITY.

SECTION VII REACTIVITY DATA

STABILITY: STABLE. CONDITIONS TO AVOID: NONE.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. CONDITIONS TO AVOID: NONE.

SECTION VIII SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SOURCES OF IGNITION AWAY AND USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES IF NECESSARY. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS; NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.

ORIGINAL-KEEP IN FILE

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SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: NONE NORMALLY NECESSARY WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN IRRITATION AND ABSORPTION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

OTHER PRECAUTIONS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. CONTAINERS, EVEN THOSE THA HAVE BEEN EMPTIED, MAY RETAIN PRODUCT RESIDUES AND/OR VAPORS. OBSERVE ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET. VAPORS OF THIS PRODUCT MAY BE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES.

SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 - 40 CFR 372 (CHECK SECTION II INGREDIENTS AND LIST BELOW TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):
AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).
AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).
SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 1% BY WEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-82-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

SOLVENT EB	111-76-2	54.15

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTURER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

SPECIAL CALIFORNIA PROPOSITION 65 WARNINGS

ORIGINAL-KEEP IN FILE

ARS-JP

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THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS; THEREFORE, EVEN TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS PRODUCT CONTAINS AROMATIC 100 OR LACOLENE--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS PRODUCT CONTAINS VM&P NAPHTHA--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--VM&P NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

ORIGINAL-KEEP IN FILE

Graphic Technology (2)

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/01/99

ANCHOR LITHKEMKO
5C INDUSTRIAL LOOP NORTH
ORANGE PARK, FL 32073

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS.
TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHEMTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: EMERALD JRZ
PRODUCT NUMBER: 2964
DOT PROPER SHIPPING NAME: NOT REGULATED

DOT NUMBER: NONE
DATE OF LAST MSDS SHIPMENT: 3/28/95
MSDS PREPARED BY: L.M.ANDERSON

HMIS INFORMATION: HEALTH - 1 FLAMMABILITY - 0
REACTIVITY - 0 PERSONAL PROTECTIVE EQUIPMENT - B

HAZARD INDEX: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST
SAFETY GLASSES & GLOVES

SECTION II HAZARDOUS INGREDIENTS

----- INGREDIENT ----- MATERIAL DESCRIPTION	CAS#	% BY WT.	ACGIH TLV(TWA) PPM	OSHA PEL PPM	OTHER LIMITS
ACETIC ACID 70%	/64-19-7 /	<5 /	10.00/	10.00/	
SOLVENT EB	/111-76-2 /	7.66 /	25.00/	25.00/	
(SYN.: 2-BUTOXYETHANOL)	/	/	/	/	/ACGIH - SKIN
	/	/	/	/	/OSHA - SKIN
	/	/	/	/	/NIOSH - 5 PPM:
	/	/	/	/	/FOR 10 HR DAY,
	/	/	/	/	/40 HR WORK WEEK

ORIGINAL-KEEP IN FILE

EMERALD JRZ

****

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED BY NTP, IARC OR OSHA-Z IN THE OTHER LIMITS COLUMN.

****

SECTION III PHYSICAL DATA

BOILING RANGE: HIGH- 340.0 F LOW- 212.0 F
VAPOR PRESSURE: NOT AVAILABLE
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: NOT AVAILABLE
WEIGHT LBS./GAL.: 8.9
METHOD 24 VOC: 1.88 LBS./GAL.
PHYSICAL STATE: LIQUID
APPEARANCE: GREEN
ODOR: MILD
PH: 3.8
WATER SOLUBILITY: 100%
CALIFORNIA SCAQMD RULE 102: NONPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: NONE
FLASHPOINT TCC: GREATER THAN 200 DEGREES F.

EXTINGUISHING MEDIA: USE FOAM, CO2, OR DRY CHEMICAL FIRE APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: REMOVE VICTIM TO FRESH AIR.

INGESTION: INDUCE VOMITING AND SEEK MEDICAL ATTENTION IMMEDIATELY.

ORIGINAL-KEEP IN FILE

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT MAY RESULT IN DERMATITIS. MAY BE ABSORBED THROUGH SKIN.

INHALATION: NO SYMPTOMS NORMALLY SEEN WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PRIMARY ROUTES OF ENTRY: SKIN AND/OR EYE CONTACT.

SYSTEMIC EFFECTS AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO SOLVENT EB IN HIGH CONCENTRATIONS HAS CAUSED ANEMIA, LIVER AND BLOOD ABNORMALITIES, AND KIDNEY AND LUNG DAMAGE IN LABORATORY ANIMALS; MAY CAUSE MATERNAL TOXICITY.

SECTION VII REACTIVITY DATA

STABILITY: STABLE. CONDITIONS TO AVOID: NONE.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. CONDITIONS TO AVOID: NONE.

SECTION VIII SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SOURCES OF IGNITION AWAY AND USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES IF NECESSARY. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS; NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.

ORIGINAL-KEEP IN FILE

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: NONE NORMALLY NECESSARY WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN IRRITATION AND ABSORPTION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

OTHER PRECAUTIONS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. CONTAINERS, EVEN THOSE THA HAVE BEEN EMPTIED, MAY RETAIN PRODUCT RESIDUES AND/OR VAPORS. OBSERVE ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET. VAPORS OF THIS PRODUCT MAY BE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES.

SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 - 40 CFR 372 (CHECK SECTION II INGREDIENTS AND LIST BELOW TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):
AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).
AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).
SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 1% BY WEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-82-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

SOLVENT EB	111-76-2	7.66

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTUPER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

SPECIAL CALIFORNIA PROPOSITION 65 WARNINGS

ORIGINAL-KEEP IN FILE

EMERALD JRZ

****

THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS; THEREFORE, EVEN TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS PRODUCT CONTAINS AROMATIC 100 OR LACOLENE--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS PRODUCT CONTAINS VM&P NAPHTHA--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--VM&P NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Graphic Technology (3)

MATERIAL SAFETY DATA SHEET

CLEANS ALL

ORIGINAL-KEEP IN FILE

PRODUCT NAME: CLEANS ALL
PRODUCT CODE: B401
CHEMICAL NAME: CLEANER

HMIS CODES: H F R P
1 2 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

DATE REVISED : 06/25/97
NAME OF PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
PINE OIL LD50 4.39 g/kg	8002-09-3	<2mmHg	20 C	20 - 30%
ALIPHATIC PETROLEUM DISTILLATE (C8-12) PEL 100ppm: TLV 100ppm // LC50> 700ppm/4hr: LD50> 25ml/kg	64741-41-9	3.1 mmHg	20 C	10 - 20%
TALL OIL FATTY ACIDS NO DATA	61790-12-3	neg.	20 C	1 - 10%
NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL LD50 2.6g/kg	9016-45-9	neg.	20 C	1 - 10%

*** No chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 212 F
VAPOR DENSITY : 3.7 (air = 1)
DRYING RATE : <0.1(nButyl Acet.=1)
PHOTOREACTIVE : NO
VOLATILES : 64 %
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.99
VAPOR PRESSURE : 6.88 mmHg
VOC : 1.10 lb/gal METHOD: EPA #24
H2O SOLUBILITY : MODERATE
APPEARANCE : LIGHT BROWN
ODOR : PINE ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 106 F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.7 **UPPER:** 6
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES **IF NO CONDITIONS:**
INCOMPATIBILITY (MATERIALS TO AVOID): YES **IF YES WHICH ONES:** STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.

CLEANS ALL **MATERIAL SAFETY DATA SHEET**

IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS. USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUTE AND CHRONIC):
EFFECT OF CHRONIC EXPOSURE: REDNESS OF SKIN
EFFECT OF ACCUTE EXPOSURE: NONE
IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:
RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.
WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT.
UN No : NA 1993
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY. GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER. EXPRESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

IF ON SKIN. WASH WITH SOAP

Graphic Technology

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MATERIAL SAFETY DATA SHEET

LITHOTINE

PRODUCT NAME: LITHOTINE
PRODUCT CODE: B607
CHEMICAL NAME: SOLVENT

ORIGINAL-KEEP IN FILE

HMIS CODES: H F R P
1 2 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800
DATE REVISED : 06/30/97
NAME OF PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ALIPHATIC PETROLEUM DISTILLATE (C8-12) PEL 100ppm: TLV 100ppm // LC50> 700ppm/4hr: LD50> 25ml/kg	64741-41-9	3.1 mmHg 20 C	80 - 90%
PINE OIL LD50 4.39 g/kg	8002-09-3	<2mmHg 20 C	1 - 10%
GLYCEROL ESTER OF WOOD ROSIN PEL-15mg/M3. TLV-10mg/M3	8050-31-5	NO DATA NO DATA	1 - 10%
CASTOR OIL NO DATA	8001-79-4	NO DATA NO DATA	1 - 10%

*** No chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 315 F
VAPOR DENSITY : 4.9 (air = 1)
DRYING RATE : <0.1(nButyl Acet.=1)
PHOTOREACTIVE : NO
VOLATILES : 90%
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.79
VAPOR PRESSURE : 3.1 mmHg
VOC : 5.91 lb/gal METHOD: EPA #24
H2O SOLUBILITY : NONE
APPEARANCE : AMBER
ODOR : PINE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 105 F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.7 UPPER: 6
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES IF NO CONDITIONS:
INCOMPATIBILITY (MATERIALS TO AVOID): YES IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.

MATERIAL SAFETY DATA SHEET

IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS. USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUTE AND CHRONIC):
EFFECT OF CHRONIC EXPOSURE: NONE
EFFECT OF ACCUTE EXPOSURE: NONE
IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.
WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.
OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:
RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.
WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : NA 1993**
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY. GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER. EXPRESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Graphic Technology
(5)

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RED MAGIC X
PRODUCT CODE: B802
CHEMICAL NAME: REJUVENATOR

ORIGINAL-KEEP IN FILE

HMIS CODES: H F R P
1 2 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

LAST REVISION : 07/02/97
DATE REVISED : 02/23/99
PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
PROPYLENE GLYCOL MONO METHYL ETHER ACETATE LD50-8.53 g/Kg	108-65-6	3.7mmHg 20 C	50 - 60%
ALIPHATIC PETRO DISTILLATE (C9 - C11) PEL 100ppm: TLV 100ppm // LD50> 25ml/kg: LC50 700ppm/4hr	64742-48-9	2.7 mmHg 25 C	20 - 30%
AROMATIC PETRO DISTILLATE (C8-C11) PEL 100 ppm // LD50 4.7g/kg: LC50 3670 ppm/8hr	64742-95-6	2.7mmHg 25 C	10 - 20%

CAS# 64742-95-6 contains approximately 5% XYLENE (CAS# 1330-20-7) an HAP reportable which has a PEL and TLV of 100 ppm: approximately 4% CUMENE (CAS# 98-82-8). an HAP reportable which has a PEL and TLV of 50 ppm-skin: and approximately 27% 1.2.4 TRIMETHYLBENZENE (CAS# 95-63-6). which has a PEL and TLV of 25 ppm. XYLENE. CUMENE AND 1.2.4 TRIMETHYLBENZENE are subject to the reporting requirements of section 313 OF SARA TITLE III.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 302 F
VAPOR DENSITY : 4.5 (air = 1)
DRYING RATE : 0.30(nButyl Acet.=1)
PHOTOREACTIVE : NO
VOLATILES : 100 %
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.87
VAPOR PRESSURE : 3.24 mmHg at 20 C
VOC : 7.28 lb/gal METHOD: EPA #24
H2O SOLUBILITY : SLIGHT
APPEARANCE : RED
ODOR : MILD SOLVENT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 112 F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.5 **UPPER:** 13.1
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES **IF NO CONDITIONS:** .
INCOMPATIBILITY (MATERIALS TO AVOID): YES
IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

MATERIAL SAFETY DATA SHEET

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS, USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUTE AND CHRONIC):

EFFECT OF CHRONIC EXPOSURE: PROLONGED HIGH VAPOR EXPOSURE MAY CAUSE LIVER AND KIDNEY PROBLEMS.
EFFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS, HEAT, SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL, SUCH AS SAND, AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS, CALL A SPILL RESPONSE TEAM. IF REQUIRED, CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS, HEAT, SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:

RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES, CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.

WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : NA 1993**
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY, GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES, PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Graphic Technology (6)

MATERIAL SAFETY DATA SHEET

ISOPROPYL ALCOHOL 99% Page: 1

PRODUCT NAME: ISOPROPYL ALCOHOL 99% ORIGINAL-KEEP IN FILE **HMIS CODES: H F R P**
PRODUCT CODE: B907 1 3 0 B
CHEMICAL NAME: SOLVENT

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300 **DATE REVISED** : 07/02/97
INFORMATION PHONE : 1-973-589-7800 **NAME OF PREPARER** : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ISOPROPANOL 99%	67-63-0	37 mmHg 20 C	90 - 100%

PEL 400ppm: TLV 400ppm // LD50 5.84g/kg: LC50 12000ppm/8hr

*** No chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 180 F
VAPOR DENSITY : 2.1 (air = 1)
DRYING RATE : 1.7(nButyl Acet.=1)
PHOTOREACTIVE : NO
VOLATILES : 100 %
PHYSICAL STATE : LIQUID
SPECIFIC GRAVITY (H2O=1): 0.79
VAPOR PRESSURE : 37 mmHg
VOC : 6.55 lb/gal METHOD: EPA #24
H2O SOLUBILITY : 100 %
APPEARANCE : CLEAR
ODOR : ALCOHOL ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 53 F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 2 **UPPER:** 12
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES **IF NO CONDITIONS:**
INCOMPATIBILITY (MATERIALS TO AVOID): YES **IF YES WHICH ONES:** STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS, USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

HEALTH HAZARDS (ACUTE AND CHRONIC):
EFFECT OF CHRONIC EXPOSURE: NONE
EFFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS, HEAT, SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL, SUCH AS SAND, AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS, CALL A SPILL RESPONSE TEAM. IF REQUIRED, CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS, HEAT, SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:

RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES, CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.

WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : 1219**
D.O.T HAZARD CLASSIFICATION: COMPOUND CLEANING LIQUID.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY, GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES, PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Graphic Technology (7)

MATERIAL SAFETY DATA SHEET

SUPERKLENE 1 IC

Page: 1

PRODUCT NAME: SUPERKLENE 1 IC
PRODUCT CODE: A221
CHEMICAL NAME: TWO STEP ROLLER WASH - FIRST STEP

ORIGINAL-KEEP IN FILE

HMIS CODES: H F R P
1 2 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

LAST REVISION : 12/11/98
DATE REVISED : 03/02/99
PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ALIPHATIC PETROLEUM DISTILLATE PEL 100ppm: TLV 100ppm // LD50> 25ml/kg: LC50> 700ppm/4hr	64742-88-7	0.5mmHg 20 C	50 - 60%
AROMATIC PETROLEUM DISTILLATE (C9-C12) PEL 100ppm: TLV 100ppm // LD50 4.7g/kg: LC50 > 3670ppm/8hr	64742-94-5	<1mmHg 20 C	10 - 20%
DIETHANOLAMINE OLEATE NO DATA	93-83-4	<0.1mmHg 20 C	10 - 20%
TRIETHANOLAMINE BENZENE SULFONATE NO DATA	1886-81-3	17.6mmHg 20 C	1 - 10%

CAS# 64742-94-5 contains approximately 4% 1.2.4 TRIMETHYLBENZENE (CAS# 95-63-6). which has a PEL and TLV of 25 ppm and approximately 10% NAPHTHALENE (CAS# 91-20-3). an HAP reportable which has a PEL and TLV of 10 ppm. NAPHTHALENE and 1.2.4 TRIMETHYLBENZENE are subject to the reporting requirements of section 313 of SARA TITLE III.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 212 F
VAPOR DENSITY : 4.64 (air = 1)
DRYING RATE : .09(n-Butyl Acet.=1)
PHOTOREACTIVE : YES
VOLATILES : 88 %
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.85
VAPOR PRESSURE : 2.55 mmHg at 20 C
VOC : 5.04 lb/gal METHOD: EPA #24
H2O SOLUBILITY : MISCIBLE
APPEARANCE : TAN EMULSION
ODOR : SOLVENT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 142 F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.5 UPPER: 7.0
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES IF NO CONDITIONS: .
INCOMPATIBILITY (MATERIALS TO AVOID): YES
IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE. OXIDES OF NITROGEN ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.

MATERIAL SAFETY DATA SHEET

A SUPERKLENE 1 IC

P INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.
E **EMERGENCY AND FIRST AID PROCEDURES**
C IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
= IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS. USE ARTIFICIAL RESPIRATON.
1 IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.
HEALTH HAZARDS (ACUTE AND CHRONIC):
EFFECT OF CHRONIC EXPOSURE: NONE
EFFECT OF ACCUTE EXPOSURE: NONE
IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

ORIGINAL-KEEP IN FILE

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:
RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.
WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : NA 1993**
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY. GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER. EXPRESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Graphic Technology (8)

MATERIAL SAFETY DATA SHEET

AUTOWASH X

PRODUCT NAME: AUTOWASH X
PRODUCT CODE: A308
CHEMICAL NAME: BLANKET AND ROLLER WASH

ORIGINAL-KEEP IN FILE

HMIS CODES: H F R P
1 2 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

LAST REVISION : 04/13/98
DATE REVISED : 02/23/99
PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ALIPHATIC PETROLEUM DISTILLATE (C8-12)	64741-41-9	3.1 mmHg 20 C	40 - 50%
PEL 100ppm: TLV 100ppm // LC50> 700ppm/4hr: LD50> 25ml/kg			
AROMATIC PETRO DISTILLATE (C8-C11)	64742-95-6	2.7mmHg 25 C	40 - 50%
PEL 100 ppm // LD50 4.7g/kg: LC50 3670 ppm/8hr			
* 2-BUTOXYETHANOL	111-76-2	0.6 mmHg 20 C	1 - 10%
PEL 25ppm: TLV 25ppm // LD50 1.746g/kg: LC50 800ppm/8hr // HAP reportable			
ALIPHATIC PETRO DISTILLATE (C9 - C11)	64742-48-9	2.7 mmHg 25 C	1 - 10%
PEL 100ppm: TLV 100ppm // LD50> 25ml/kg: LC50 700ppm/4hr			
NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL	9016-45-9	NO DATA NO DATA	1 - 10%
LD50 2.4g/Kg			

* Indicates chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. CAS# 64742-95-6 contains approximately 5% XYLENE (CAS# 1330-20-7) an HAP reportable which has a PEL and TLV of 100 ppm: approximately 4% CUMENE (CAS# 98-82-8). an HAP reportable which has a PEL and TLV of 50 ppm-skin: and approximately 27% 1.2.4 TRIMETHYLBENZENE (CAS# 95-63-6). which has a PEL and TLV of 25 ppm. XYLENE. CUMENE AND 1.2.4 TRIMETHYLBENZENE are subject to the reporting requirements of section 313 OF SARA TITLE III.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 315 F
VAPOR DENSITY : 2.7 (air = 1)
DRYING RATE : 0.23(nButyl Acet.=1)
PHOTOREACTIVE : YES
VOLATILES : 98%
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.84
VAPOR PRESSURE : 2.8 mmHg at 20 C
VOC : 6.63 lb/gal METHOD: EPA #24
H2O SOLUBILITY : SLIGHT
APPEARANCE : CLEAR
ODOR : MODERATE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 105 F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.5 UPPER: 10.6
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM, OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES IF NO CONDITIONS: .
INCOMPATIBILITY (MATERIALS TO AVOID): YES
IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:

MATERIAL SAFETY DATA SHEET

AUTOWASH X

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS. USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUTE AND CHRONIC):

EFFECT OF CHRONIC EXPOSURE: PROLONGED HIGH VAPOR EXPOSURE MAY CAUSE LIVER AND KIDNEY PROBLEMS.
EFFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS. MAY AGGRAVATE EXISTING LIVER AND KIDNEY AILMENTS.

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.
WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.
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========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:

RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.
WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : NA 1993**
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

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Graphic Technology

(9)

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPEEDY
PRODUCT CODE: A901
CHEMICAL NAME: TYPE WASH

ORIGINAL-KEEP IN FILE

HMIS CODES: H F R P
1 3 0 B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

LAST REVISION : 06/18/97
DATE REVISED : 03/24/98
PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ACETONE	67-64-1	186 mmHg 20 C	50 - 60%
PEL 750ppm: TLV 750ppm // LD50 9.75g/kg: LC50 16000ppm/4hr			
ALIPHATIC PETROLEUM DISTILLATE (C4-C8)	64742-89-8	170 mmHg 100 F	40 - 50%
PEL 400ppm: TLV 400ppm			

*** No chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 121 F
VAPOR DENSITY : 2.6 (air = 1)
DRYING RATE : 6.1(nButyl Acet.=1)
PHOTOREACTIVE : NO
VOLATILES : 100%
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 0.74
VAPOR PRESSURE : 183 mmHg (-Acet=180)
VOC : 2.91 lb/gal METHOD: EPA #24
H2O SOLUBILITY : MISCIBLE
APPEARANCE : CLEAR
ODOR : STRONG

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : < 30 F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1 UPPER: 13.2
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES IF NO CONDITIONS: .
INCOMPATIBILITY (MATERIALS TO AVOID): YES
IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS, ITCHING, IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS. USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

SPEEDY

MATERIAL SAFETY DATA SHEET

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUTE AND CHRONIC):
EFFECT OF CHRONIC EXPOSURE: NONE
EFFECT OF ACCUTE EXPOSURE: NONE
IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS. HEAT. SPARKS AND OPEN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT MIGHT GENERATE A SPARK. SOLVENT RESIDUE IN THE CONTAINER COULD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:
RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.
WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT.
UN No : NA 1993
D.O.T HAZARD CLASSIFICATION: COMPOUND CLEANING LIQUID.

========== SECTION X - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY. GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER. EXPRESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Graphic Technology (10)

MATERIAL SAFETY DATA SHEET

MRC (METRING ROLLER CLEANER) Page: 1

PRODUCT NAME: MRC (METRING ROLLER CLEANER) **HMIS CODES:** H F R P
PRODUCT CODE: A931 1 2 0 B
CHEMICAL NAME: METERING ROLLER CLEANER

ORIGINAL-KEEP IN FILE

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PRINTERS' SERVICE
ADDRESS : 26 Blanchard Street
Newark, New Jersey 07105

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : 1-973-589-7800

LAST REVISION : 08/24/98
DATE REVISED : 03/02/99
PREPARER : ENVIRONMENTAL DEPT.

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
* METHYLENE CHLORIDE	75-09-2	350 mmHg 20 C	70 - 80%
PEL 25ppm: TLV 50ppm // LD50 2.136g/kg: LC50 88g/m3/0.5hr // HAP reportable			
* XYLENE	1330-20-7	6.6 mmHg 20 C	10 - 20%
PEL 100ppm: TLV 100ppm // LD50 5.2g/kg: LC50 6350ppm/4hr // HAP reportable			
ISOPROPANOL 99%	67-63-0	37 mmHg 20 C	10 - 20%
PEL 400ppm: TLV 400ppm // LD50 5.84g/kg: LC50 12000ppm/8hr			

* Indicates chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. CAS# 1330-20-7 Contains approximately 20% ETHYLBENZENE (CAS# 100-41-4). an HAP reportable which has a PEL of 100 PPM and a TLV of 100 PPM. ETHYLBENZENE is subject to the reporting requirements of section 313 OF SARA TITLE III.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 103 F
VAPOR DENSITY : 2.9 (air = 1)
DRYING RATE : 9.2(n-Butyl Acet.=1)
PHOTOREACTIVE : YES
VOLATILES : 100%
PHYSICAL STATE : LIQUID

SPECIFIC GRAVITY (H2O=1): 1.12
VAPOR PRESSURE : 243 mmHg at 20 C
VOC : 2.76 lb/gal METHOD: EPA #24
H2O SOLUBILITY : MISCIBLE
APPEARANCE : CLEAR
ODOR : STRONG CHLORINATED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : None to boiling **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0 **UPPER:** 12
EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM. OR DRY POWDER (WATER MAY BE INEFFECTIVE)
SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD BURNING MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL.

SECTION V - REACTIVITY DATA

STABILITY: YES **IF NO CONDITIONS:** .
INCOMPATIBILITY (MATERIALS TO AVOID): YES
IF YES WHICH ONES: STRONG OXIDIZER
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE. HYDROGEN CHLORIDE. AND PHOSGENE ON IGNITION
HAZARDOUS POLYMERIZATION: NONE

SECTION VI - HEALTH HAZARD DATA

INDICATIONS OF EXPOSURE:
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE. DIZZINESS. NAUSEA. VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNESS. SLIGHT IRRITATION OF THE MUCOUS MEMBRANE
EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.
SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION ON OVEREXPOSURE.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

MATERIAL SAFETY DATA SHEET

MRC (METRING ROLLER CLEANER)

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.
IF ON SKIN: WASH WITH SOAP AND WATER.
IF INHALED: REMOVE TO FRESH AIR. IF UNCONSCIOUS, USE ARTIFICIAL RESPIRATON.
IF INGESTED: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY TO PUMP STOMACH.

ORIGINAL-KEEP IN FILE

HEALTH HAZARDS (ACUITE AND CHRONIC):

EFFECT OF CHRONIC EXPOSURE: PROLONGED HIGH VAPOR EXPOSURE MAY CAUSE LIVER, KIDNEY, BLOOD, AND EYE PROBLEMS.
EFFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** Yes(animal)**OSHA REGULATED:** animal
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

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========== SECTION VIII - CONTROL MEASURES ==========

EXPOSURE CONTROL AND PERSONAL PROTECTION:

RESPIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.
VENTILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH THE LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.
PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.
EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.

WORK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH THE PRODUCT.

========== SECTION IX - SHIPPING INFORMATION ==========

GROUND SHIPMENT. **UN No : NA 1993**
D.O.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

========== SECTION X - DISCLAIMER ==========

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ORIGINAL-KEEP IN FILE

** PRODUCT ALERT **

Summary of OSHA's new Methylene Chloride Standard (29)CFR 1910.1052)
The Occupational Safety and Health Administration (OSHA) amended its existing regulations for employee exposure to Methylene Chloride reducing the Permissible Exposure Limit from 500 parts per million (ppm) to 25 parts per million (ppm) [Federal Register, September 22, 1998, Volume 63, Number 183, pages 50711 50732]. The standard also contains provisions for exposure control, personal protective equipment, employee exposure monitoring, training, medical surveillance, hazard communication, regulated areas, and record keeping. This Standard applies to all employment in general industry, shipyards, and construction.

COMPLIANCE DATES

- The Occupational Safety and Health Administration (OSHA) issued its Final Rule on Methylene Chloride on September 22, 1998.
- The date the rule becomes effective is October 22, 1998 except for provisions regarding start-up dates that are effective September 22, 1998.
- Initial monitoring as required by the final rule is to be completed by:
  - July 19, 1999 for employers *with fewer than 20 employees.*
  - May 25, 1999 for polyurethane foam manufacturers *with 20-99 employees.*
  - February 19, 1999 for *all other employers.*
- Engineering controls required by the final rule are to be implemented by:
  - September 22, 2001 for employers *with fewer than 20 employees.*
  - September 22, 2001 for employers *with fewer than 150 employees engaged in foam fabrication*; for employers with *fewer than 50 employees engaged in furniture refinishing, general aviation aircraft stripping and product formulation*; for employers *with fewer than 50 employees using methylene chloride based adhesives for boat building and repair; recreational vehicle manufacture, van conversions and upholstering*; for employers *with fewer than 50 employees using methylene chloride in construction work for restoration and preservation of buildings, painting and paint removal, cabinet making and/or floor refinishing and resurfacing.*
  - March 22, 2001 for employers engaged in polyurethane foam manufacturing *with 20 employees or more.*
  - September 22, 2000 for employers *with 150 or more employees engaged in foam fabrication*; for employers *with 50 or more employees engaged in furniture refinishing, general aviation aircraft stripping and product formulation*; for employers *with 50 or more employees using methylene chloride based adhesives for boat building and repair; recreational vehicle manufacture, van conversions and upholstering; for employers with 50 or more employees using methylene chloride in construction work for restoration and preservation of buildings, painting and paint removal, cabinet making and/or floor refinishing and resurfacing.*
  - September 22, 1999 for *all other employers.*
- Employee notification of corrective actions to be taken to reduce exposures as required by the standard shall be made 90 days before the effective date for engineering controls.
- All other requirements of the final rule are to implemented by:
  - September 22, 1999 for employers *with fewer than 20 employees.*
  - June 19, 1999 for employers engaged in polyurethane manufacturing *with 20-99 employees.*
  - June 4, 1999 for *all other employees.*

ORIGINAL-KEEP IN FILE

REVISED EXPOSURE LIMITS

OSHA has revised its Permissible Exposure Limit for Methylene Chloride to 25 parts per million (ppm) as an 8-hour Time Weighted Average (TWA). The previous PEL was 500 ppm. Employers are also required to ensure that no employee is exposed to airborne concentrations of Methylene Chloride above 125 ppm over a 15 minute period. This 125 ppm level is known as the Short Term Exposure (STEL). OSHA has enacted an action level for Methylene Chloride of 12.5 ppm, which triggers certain aspects of the standard.

EXPOSURE MONITORING

Where Methylene Chloride is present in the workplace the employer is required to take personal representative breathing zone air samples of employees' exposures to Methylene Chloride. If objective data is used to determine that Methylene Chloride cannot be released into the workplace, the employer must document this data. Employers must notify each affected employee on the results of monitoring, posting the results or reviewing the results individually with the person being monitored.

REGULATED AREAS

The employer shall establish a regulated area wherever an employee's exposure is above the PEL or STEL for Methylene Chloride. The regulated area must have limited access and must be marked in a manner that alerts all site employees about access restrictions to the Methylene Chloride area.

EXPOSURE CONTROL

The standard calls for engineering controls to be implemented where exposures are found to be above the Methylene Chloride PEL or STEL. The employer cannot rely upon a schedule of employee rotation as a means of compliance with the PEL.

PERSONAL PROTECTIVE EQUIPMENT

OSHA considers air purifying type respirators as an unacceptable respirator for protection against Methylene Chloride. Continuous flow, air-supplied respirators are required for Methylene Chloride exposures from 25 ppm up to 625 ppm. The standard also requires that personal protective clothing and equipment must be cleaned and laundered by the employer. The employer needs to provide conveniently located eye washing and safety shower facilities in areas where Methylene Chloride is used.

MEDICAL SURVEILLANCE

The employer shall provide medical surveillance at no cost to the employees when employees are exposed to Methylene Chloride at or above the Action level on 30 days or more a year, or at or above the PEL or STEL on ten or more days a year. The surveillance must occur at or before the affected employees' initial assignment and at least annually. The surveillance is composed of a physical examination and blood tests. Specific aspects of the surveillance are listed in the OSHA Standard (Appendix B).

EMPLOYEE TRAINING

In addition to the training required by the Hazard Communication Standard for Methylene Chloride employers are required to:

1. Inform affected employees on the requirements of the Methylene Chloride Standard and how to access or obtain a copy of the standard.
2. Discuss the potential target organ effects related to Methylene Chloride exposure (central nervous system, liver effects, and skin and eye irritation).
3. Review of the tasks, process, which resulted in overexposure to Methylene Chloride.
4. Retrain affected employees when the process or handling of Methylene Chloride changes.

ORIGINAL-KEEP IN FILE

RECORD KEEPING

The standard calls for the establishment of a record keeping system in which employee exposure measurements to Methylene Chloride are kept. Along with the measurement the following information must be maintained:

1. The date of the measurement.
2. The operation involved.
3. The sampling and analytical methods used.
4. The number, duration, and results of the sample taken.
5. Type of personal protective equipment worn by employee being monitored.
6. The name, social security number, and job classification, of empolyees who were monitored. These records must be kept for at least thirty years.

****Information provided by Ashland Chemical Company - *Product Alert.***

(11)

HOLLAND INK CORPORATION OF AMERICA
92 Union Street, Mineola, NY 11501

Material Safety Data Sheet –Van Son Matte Overprint Varnish

Date: 10-9-1996

ORIGINAL–KEEP IN FILE

7-11

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	1
Flammability	1
Reactivity	0

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Van Son Holland Ink Corporation of America
92 Union Street, Mineola, NY 11501
Emergency Telephone: 516-294-8811
Product Class: Matte Overprint Varnish
Trade Name: Van Son Matte Overprint Varnish

MANUFACTURER:
Van Chem Products LAWTR
300 Kuller Road, Clifton, NJ 07015
Chemtrec 24 Hour Emergency No: 800-424-9300
Manufacturer's Code ID: VS2171

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Hydrotreated Middle Distillate	Trade Secret	Trade Secret	5mg/M3	5mg/M3	No
Pennsylvania and New Jersey. Trade Secret Ingredients Partially Unknown					

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200 ..... None

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Eye Contact ..... Direct contact may cause irritation.
Skin Contact ..... Prolonged contact or repeated exposure may cause minor irritation.
Inhalation ..... Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
Ingestion ..... May cause gastrointestinal irritation.
Medical Conditions aggravated by normal exposure: Persons with dermatitis should avoid skin contact.
Target Organs: ..... Skin, eyes, lungs.
Primary Routes of entry ..... Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact** ..... Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact** ..... Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion** ..... If swallowed, do not induce vomiting. Call a physician.
- **Inhalation** ..... Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

Flash Point ..... Above 240°F Method used: closed cup
Explosion Limits ..... LEL: N/A UEL: N/A
Extinguishing Media ..... Foam, carbon dioxide, dry chemical. Water spray may be applied to cool exposed closed containers.
Unusual Fire and Explosion Hazards ..... Dense smoke may be generated when burning. Carbon Monoxide and Carbon Dioxide generated as combustion products.
Special Fire Fighting Procedures ..... Self-contained breathing apparatus recommended.

6. ACCIDENTAL RELEASE MEASURES

Procedure when material spilled or released: Wipe up. Dispose of wipes in approved waste containers. If petroleum hydrocarbon is used, provide sufficient ventilation.
Waste Disposal Method: Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90° F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use sufficient ventilation.
Protective Gloves: Gloves recommended.
Respiratory Protection: None required.
Eye Protection: Goggles recommended.
Other Protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) 3.20 **lbs./gallon** 300 **Grams/liter Method 24**
Boiling Range °F:> 465-515°
Vapor Density vs. Air: Heavier
Density: 7.9 **lbs./ gallon ASTM D1475**
Type of Odor: Oleoresinous
Appearance: Amber viscous paste.
Evaporation Rate vs. Butyl Acetate: Slower
Percentage Volatile By Weight: 35% **ASTM D2369**
Freezing Point °F: N/A
Vapor Pressure: N/A
Specific Gravity: 0.95
Odor Threshold: High
pH: N/A
Coefficient of Water/oil Distribution: N/A

10. STABILITY AND REACTIVITY

Product Stability: Stable
Conditions to Avoid: Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and smoke.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogen .....Contains no materials that are considered carcinogenic by OSHA or the National Toxicology Program (NTP).
Mutagen.....No
Teratogen.....No
Reproductive Toxicity.....No

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION– **DOT (HM 181) :** Not required – **Shipping Labels:** None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act).....All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302.....Contains no reportable materials
SARA Title III.....None
FDA.....This product is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community).....All ingredients listed.
California Proposition 65.....None
CONEG Legislation.....Meets all current State and Heavy Metal limitations.
Canadian WHMIS.....Non-controlled product

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation of America. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation of America assumes no legal responsibility for use or reliance on this data.

Prepared by Gus Lindquist, Consultant

Date 10/9/1998

Graphic Technology
12 A

ORIGINAL-KEEP IN FILE

BASF Graphic Systems, GmbH

Date: January 1, 1998

Group Material Safety Data Sheet - "Offset Printing Inks"

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: K + E Offset Printing Inks for Sheetfed Offset.

Intended Use: Printing on substrates like paper, board or cardboard via offset printing process.

Name and Address of Company: BASF Drucksysteme GmbH, K + E Druckfarben, Siegle Str. 25, 70469 Stuttgart, Germany

USA Contact: Pertech Corporation / K+E Printing Inks
1170 McLester Street, Elizabeth, New Jersey 07201

Emergency Phone No.: (Germany) 02501/14 - 32227 (USA - NJ) (908) 354-1700

2. COMPOSITION / INFORMATION OF INGREDIENTS

Preparation from organic and inorganic pigments and/or carbon black, resins, vegetable and mineral oils.

3. HAZARDS IDENTIFICATION OF THE PREPARATION

Non - Hazardous preparation according to the EC directive on dangerous preparations.

HAZARD RATING: Health: 1 Flammability: 1 Reactivity: 0 Personal Protection 0

4. FIRST AID MEASURES

Skin Contact:
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. **DO NOT USE** solvents or thinner.

Eye Contact:
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Ingestion:
If accidentally swallowed, obtain immediate medical attention. Keep at rest. **DO NOT** induce vomiting.

ORIGINAL-KEEP IN FILE

Inhalation:
Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

General:
In all cases of doubt, or when symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media: Recommend: Foam, CO_2, powders
NOT Recommended: Water jet

Recommendations:
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

Cool any closed containers exposed to fire with water. **DO NOT** allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Refer to protective measures listed in Sections 7 and 8.

Contain and collect spillage with non-combustible absorbent materials, e.g.: sand, earth, vermiculite and place in container for disposal according to regulations (see Section 13). DO NOT allow to enter drains or water courses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

7.1 Handling:
Prevent the creation of flammable or explosive concentrations of vapor in air.

Avoid skin and eye contact. Avoid inhalation of vapors. Additionally, these products should only be used in areas from which all naked lights have been excluded.

Clothes and rags contaminated with ink, lacquer or oxidatively drying oil may cause self ignition. Store in fireproof container.

Smoking, food and drinks are forbidden in application area. Comply with the health and safety at work laws.

For personal protection see Section 8.

7.2 Storage:
Store in accordance with respective national regulations. Observe label precautions. Store in a dry, well ventilated place away from sources of heat and direct sunlight.

Special Fire Fighting Procedures- Self-contained breathing apparatus recommended.

Keep well away from oxidizing agents and strong alkaline or strongly acid materials.

No smoking. Prevent unauthorized access. Containers which are open must be sealed carefully and kept upright to prevent leakage.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

8.1 Engineering Measures:
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

8.2 Exposure limits:
Not Relevant

8.3 Personal Protection:

Hand Protection:
For prolonged or repeated contact use gloves. Barrier creams may help to protect the exposed areas of the skin, they should however **NOT** be applied once exposure has occurred.

Eye Protection:
Use safety eye wear designed to protect against splash of liquids.

9. PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Viscous
Flash Point:	> 100° C
Density:	circa 1 g/cm³ (exceptions; white and bronzes)
Viscosity:	0,1 - 100 Pa s
Vapor Density:	< 10 Pa (20° C)
Lower Explosion Limit:	0,46 Vol. %
Solubility in Water:	Insoluble

10. STABILITY and REACTIVITY

Stable under recommended storage and handling conditions. (see Section 7)

In case of fire, thermal decomposition may produce hazardous products such as carbon monoxide and dioxide, smoke, oxide of nitrogen. Keep well away from oxidizing agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

When used and handled properly for years, no adverse effects were observed.

Repeated or prolonged skin contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis.

The liquid splash in the eyes may cause irritation and reversible damage.

Explosion Limits- [illegible]
Extinguishing Media- Foam, carbon dioxide, dry [illegible]
Unusual Fire and Explosion Hazards- Dense smoke may be generated when [illegible] Carbon Monoxide and Carbon Dioxide generated as combustion pr[illegible]
Special Fire Fighting Procedures- Self-contained breathing apparatus recommended.

ORIGINAL-KEEP IN FILE

12. ECOLOGICAL INFORMATION

The product should NOT be allowed to enter drains or water courses or soil.

13. DISPOSAL INFORMATION

Emptied containers are to be lead into scrap recycling or reconditioning respectively. NOT orderly emptied cans and ink remnants are special waste.

14. TRANSPORT INFORMATION

NOT classified according to transport regulations (like ARD/RID etc.)

15. REGULATORY INFORMATION

Non-Hazardous preparation according to the EC - directive on dangerous preparations.

16. OTHER INFORMATION

The information on this MSDS is based on the present sate-of-the-knowledge and on current EEC and national laws, as the user's working conditions are beyond our knowledge and control.

The product is NOT to be used for other purposes than those specified under Section 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary steps in order to fulfill the demands laid down in the rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product, it is NOT to be considered as a guarantee of the product's properties.

Graphic Technology P.03

(12B)

VAN SON HOLLAND INK CORPORATION
92 Union Street, Mineola, NY 11501

ORIGINAL-KEEP IN FILE

Material Safety Data Sheet
OFFSET COLOR INK OXIDIZING

Date: 2-12-1999

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	1
Flammability	1
Reactivity	0

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: Van Son Holland Ink Corporation
92 Union Street, Mineola, NY 11501
Emergency Telephone: 516-294 8811
Product Class: Offset Color Ink Oxidizing

PARENT COMPANY:
Van Son Royal Dutch Printing Ink Factories
Hilversum, Holland
Chemtrec 24 Hour Emergency No-800-424-9300

TRADE NAMES	MANUFACTURER'S CODE ID
CML-Oil Base Plus Colors	VS700 to 744, 746 to 794
Colorlok Process Colors	CL57152, CL57153,CL57154
Glosskote Colors	2001 to 2009, 2011 to 2014, 2016, 2018 to 2022, 2025, 2027 to 2036, 2040
Quickson Soy Colors	VS940 to 949, 951 to 953
Quickson Special Colors	VS9130 to 9132, 9134, VS9120 to 9122, 9124, VS9140 to 9142, 9144
Quickson Special Fresh Colors	VS9230 to 9232, 9234, VS9220 to 9222, 9224, VS9240 to 9242, 9244
Signature Colors	R20110 to R20112
SonaDry Colors	V8010 to V8012
Sonagloss Colors	VS270 to 273, VS290, VS299, VS361 to 373
Tough Tex Colors	VS378 to 393, 395, 399, VS581 to 590

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Organic Pigments	See Table 2	15-25	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	30-50	N/A	N/A	No
Vegetable Oil	Various	0-30	N/A	N/A	No
Severe Acid Treated or Solvent Refined Middle Distillate	64742-13-8 64741-91-9	10-30	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	2-10	N/A	N/A	No
Cobalt Drier	61789-52-4	0-1	0.1mg/M3	N/A	IARC
Manganese Drier	8030-70-4	0-1	5mg/M3	N/A	No

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200 .....Manganese Compounds

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Eye Contact– Direct contact may cause irritation.
Skin Contact– Prolonged contact or repeated exposure may cause minor irritation.
Inhalation– Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
Ingestion– May cause gastrointestinal irritation.
Medical Conditions aggravated by normal exposure– Persons with dermatitis should avoid skin contact.
Target Organs– Skin, eyes, lungs.
Primary Routes of entry– Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact** Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion** If swallowed, do not induce vomiting. Call a physician.
- **Inhalation** Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

Flash Point– Above 250°F Method used: closed cup
Explosion Limits– LEL: N/A UEL: N/A
Extinguishing Media– Foam, carbon dioxide, dry chemical. Water spray may be applied to cool exposed closed containers.
Unusual Fire and Explosion Hazards– Dense smoke may be generated when burning.
Carbon Monoxide and Carbon Dioxide generated as combustion products.
Special Fire Fighting Procedures– Self-contained breathing apparatus recommended.

ORIGINAL-KEEP IN FILE

6. ACCIDENTAL RELEASE MEASURES

Procedure when material spilled or released: Wipe up. Dispose of wipes in approved waste containers. If petroleum hydrocarbon is used, provide sufficient ventilation.
Waste Disposal Method: Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90° F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use sufficient ventilation.
Protective Gloves: Gloves recommended.
Respiratory Protection: None required.
Eye Protection: Goggles recommended.
Other Protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) 1.00 - 2.30 **lbs./gallon**
Boiling Range °F: > 500°
Vapor Density vs. Air: Heavier
Density: 8.33 - 9.15 **lbs./ gallon ASTM D1475**
Type of Odor: Oily
Appearance: Color viscous paste.
Evaporation Rate vs. Butyl Acetate: Slower
Percentage Volatile By Weight: 10 - 27% **ASTM D2369**
120 - 260 **Grams/liter Method 24**
Freezing Point °F: N/A
Vapor Pressure: less than 0.04psi
Specific Gravity: 1.00-1.06
Odor Threshold: N/A
pH: N/A
Coefficient of Water/oil Distribution: N/A

10. STABILITY AND REACTIVITY

Product Stability: Stable
Conditions to Avoid: Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogen ..... Contains no materials that are considered carcinogenic by OSHA or the National Toxicology Program (NTP).
Mutagen No
Teratogen ..... No
Reproductive Toxicity ..... No

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION– **DOT (HM 181)** : Not required – **Shipping Labels:** None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) ..... All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302 ..... Contains no reportable materials
SARA Title III ..... 1% Cobalt Compound and 1% Manganese Compound. Barium Compounds present. Request Table 1.
FDA ..... This printing ink is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community) All ingredients listed.
California Proposition 65 ..... Pigment Red 53.1. Request Table 1.
CONEG Legislation ..... Meets all current State and Heavy Metal limitations.
Canadian WHMIS ..... Controlled product
Vegetable Ink Printing Act of 1994 ..... Most inks listed meet the 20% minimum requirement of vegetable oil in sheet fed inks

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation of America assumes no legal responsibility for use or reliance on this data.

Date 2/12/99

Prepared by Gus Lindquist, Consultant

ORIGINAL-KEEP IN FILE (12C)

VAN SON HOLLAND INK CORPORATION
92 Union Street, Mineola, NY 11501

Material Safety Data Sheet

OFFSET COLOR INK NON-OXIDIZING

Date: 2-12-1999

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	1
Flammability	1
Reactivity	0

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: Van Son Holland Ink Corporation
92 Union Street, Mineola, NY 11501

Emergency Telephone: 516-294-8811

Product Class: Offset Color Ink Non-oxidizing

PARENT COMPANY:
Van Son Royal Dutch Printing Ink Factories
Hilversum, Holland

Chemtrec 24 Hour Emergency No-800-424-9300

TRADE NAMES	MANUFACTURER'S CODE ID
AB Dick Acrylic Base Colors	10-2002 to 10-2012, 10-2032,10-2185, 10-2199, 10-2293, 10-2300, 10-2347, 10-2469, 10-1023 to 10-2025, 10-2002-5 to 10-2012-5, 10-2032-5,10-2185-5, 10-2199-5, 10-2293-5, 10-2300-5, 10-2347-5, 10-2469-5, 10-1023-5 to 10-2025-5
Colorlok Colors	CL17101 to CL17109, CL17121 toCL17134
Infinity Colors	VS41600 to 41626, VS41700 to 41726
Rubber Base Plus Colors	VS300 to 360, VS500 to 560
Very Special Colors	17000 to 17050, 5700 to 57050

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Organic Pigments	See Table 2	15-25	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	20-40	N/A	N/A	No
Vegetable Oil	Various	20-30	N/A	N/A	No
Naphthenic Severe Hydrotreated Middle Distillate	64742-53-6	10-30	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	2-10	N/A	N/A	No

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200.....None

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Eye Contact- Direct contact may cause irritation.
Skin Contact- Prolonged contact or repeated exposure may cause minor irritation.
Inhalation- Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
Ingestion- May cause gastrointestinal irritation.
Medical Conditions aggravated by normal exposure- Persons with dermatitis should avoid skin contact.
Target Organs- Skin, eyes, lungs.
Primary Routes of entry- Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact** Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion** If swallowed, do not induce vomiting. Call a physician.
- **Inhalation** Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

Flash Point- Above 250°F Method used: closed cup
Explosion Limits- LEL: N/A UEL: N/A
Extinguishing Media- Foam, carbon dioxide, dry chemical. Water spray may be applied to cool exposed closed containers.
Unusual Fire and Explosion Hazards- Dense smoke may be generated when burning.
Carbon Monoxide and Carbon Dioxide generated as combustion products.
Special Fire Fighting Procedures- Self-contained breathing apparatus recommended.

ORIGINAL-KEEP IN FILE

6. ACCIDENTAL RELEASE MEASURES

Procedure when material spilled or released: Wipe up. Dispose of wipes in approved waste containers.
Waste Disposal Method: If petroleum hydrocarbon is used, provide sufficient ventilation. Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90° F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use sufficient ventilation.
Protective Gloves: Gloves recommended.
Respiratory Protection: None required.
Eye Protection: Goggles recommended.
Other Protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) 1.05 - 1.60 **lbs./gallon** 125 - 190 **Grams/liter Method 24**
Boiling Range °F: > 500°
Freezing Point °F: N/A
Vapor Density vs. Air: Heavier
Vapor Pressure: less than 0.04psi
Density: 8.78 - 9.25 **lbs./ gallon ASTM D1475**
Specific Gravity: 1.00-1.06
Type of Odor: Oily
Odor Threshold: N/A
Appearance: Color viscous paste.
pH: N/A
Evaporation Rate vs. Butyl Acetate: Slower
Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight: 12 - 20% **ASTM D2369**

10. STABILITY AND REACTIVITY

Product Stability: Stable
Conditions to Avoid: Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogen.....Contains no materials that are considered carcinogenic by OSHA or the National Toxicology Program (NTP), or the International Agency for Research on Cancer (IARC).
Mutagen No
Teratogen.....No
Reproductive Toxicity.....No

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION– **DOT (HM 181)** : Not required – **Shipping Labels:** None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act).....All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302.....Contains no reportable materials
SARA Title III.....1% Cobalt Compound and 1% Manganese Compound. Barium Compounds present. Request Table 1.
FDA.....This printing ink is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community).All ingredients listed.
California Proposition 65.....Pigment Red 58.1. Request Table 1.
CONEG Legislation.....Meets all current State and Heavy Metal limitations.
Canadian WHMIS.....Non-controlled product
Vegetable Ink Printing Act of 1994.....Meets the 20% minimum requirement of vegetable oil in sheet fed inks

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation assumes no legal responsibility for use or reliance on this data.

Date 2/12/99

Prepared by Gus Lindquist, Consultant

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12D

ORIGINAL-KEEP IN FILE

VAN SON HOLLAND INK CORPORATION
92 Union Street, Mineola, NY 11501

Material Safety Data Sheet

OFFSET BLACK INK OXIDIZING

Date:2-12-1999

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	1
Flammability	1
Reactivity	0

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: Van Son Holland Ink Corporation
92 Union Street, Mineola, NY 11501

Emergency Telephone: 516-294-8811

Product Class: Offset Black Ink Oxidizing

PARENT COMPANY:
Van Son Royal Dutch Printing Ink Factories
Hilversum, Holland

Chemtrec 24 Hour Emergency No-800-424-9300

TRADE NAMES	MANUFACTURER'S CODE ID
AB Dick Oil Base Dense Black	10-1001, 10-1001-5
AB Dick Oil Base PANTONE Black	10-1013, 10-1013-5
AB Dick Oil Base Process Black	10-1026, 10-1026-5
Colorlok Process Black	57151
CML-Oil Base Plus Black 22011	VS745, VS795
Glosskote Black	2010, 2011, 2015
Quickson Perfect Black	VS5303
Quickson Soy Black	VS950, VS954, VS957
Quickson Special Fresh Intense Black	VS9237, VS9227, VS9247
Quickson Special Fresh Process Black	VS9233, VS9223, VS9243
Quickson Special Intense Black	VS9137, VS9127, VS9147
Quickson Special Process Black	VS9133, VS9123, VS9143

TRADE NAMES	MANUFACTURER'S CODE ID
Signature Black	20113
SonaDry Black	VS8013
Sonagloss Black	VS274, VS275, VS374, VS375
Tough Tex Black	VS394, VS594

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Carbon Black	133-86 4	15-30	3.5mg/M3	3 5mg/M3	See 11
Organic Pigments	See Table 2	2-10	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	20-40	N/A	N/A	No
Vegetable Oil	Various	0 35	N/A	N/A	No
Severe Acid Treated or Solvent Refined Middle Distillate	64742-13 8 64741-91-9	10-35	5mg/M3	N/A	No
Cobalt Drier	61789 52 4	0-1	0.1mg/M3	N/A	IARC
Manganese Drier	8030-70-4	0-1	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	2-10	N/A	N/A	No

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200.....Carbon Black (dry pigment), Manganese Compound

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Eye Contact-- Direct contact may cause irritation.
Skin Contact- Prolonged contact or repeated exposure may cause minor irritation.
Inhalation- Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
Ingestion- May cause gastrointrestrinal irritation.
Medical Conditions aggravated by normul exposure- Persons with dermatitis should avoid skin contact.
Target Organs- Skin, eyes, lungs.
Primary Routes of entry-- Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact** Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion** If swallowed, do not induce vomiting. Call a physician.
- **Inhalation** Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

Flash Point- Above 250°F Method used: closed cup
Explosion Limits- LEL: N/A UEL: N/A
Extinguishing Media- Foam, carbon dioxide, dry chemical. Water spray may be applied to cool exposed closed containers.
Unusual Fire and Explosion Hazards- Dense smoke may be generated when burning.
Carbon Monoxide and Carbon Dioxide generated as combustion products.
Special Fire Fighting Procedures- Self-contained breathing apparatus recommended.

6. ACCIDENTAL RELEASE MEASURES

Procedure when material spilled or released: Wipe up. Dispose of wipes in approved waste containers. If petroleum hydrocarbon is used, provide sufficient ventilation.
Waste Disposal Method: Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90° F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use sufficient ventilation.
Protective Gloves: Gloves recommended.
Respiratory Protection: None required.
Eye Protection: Goggles recommended.
Other Protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) .85 - 2.10 **lbs./gallon** 100 - 240 **Grams/liter Method 24**
Boiling Range °F:> 500°
Vapor Density vs. Air: Heavier
Density: 8.70 - 8.90 **lbs./ gallon ASTM D1475**
Type of Odor: Oily
Appearance: Black viscous paste.
Evaporation Rate vs. Butyl Acetate: Slower
Percentage Volatile By Weight: 10 - 25% **ASTM D2369**
Freezing Point °F: N/A
Vapor Pressure: less than 0.04psi
Specific Gravity: 1.05-1.07
Odor Threshold: N/A
pH: N/A
Coefficient of Water/oil Distribution: N/A

10. STABILITY AND REACTIVITY

Product Stability .....Stable
Conditions to Avoid .....Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products ...None.
Hazardous Polymerization .....Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogen.....No
Mutagen.....No
Teratogen .....No
Reproductive Toxicity...No

OSHA in December 1996 ruled that a printing ink mixture containing carbon black as evaluated by the International Agency for Research on Cancer (IARC) is "not classifiable as to their carcinogenicity to humans" (Group 3). Carbon Black is not present in such a form so as to present an exposure problem for employees. No materials present are considered carcinogenic by National Toxicology Program (NTP).

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION- **DOT (HM 181)** : Not required - **Shipping Labels:** None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act).....All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302 .....Contains no reportable materials
SARA Title III.....1% Cobalt Compound and 1% Manganese Compound.
FDA.....This printing ink is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community).All ingredients listed.
California Proposition 65.....None
CONEG Legislation .....Meets all current State and Heavy Metal limitations.
Canadian WHMIS .....Controlled product
Vegetable Ink Printing Act of 1994 .....Most inks listed meet the 20% minimum requirement of vegetable oil in sheet fed inks

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation assumes no legal responsibility for use or reliance on this data.

ORIGINAL-KEEP IN FILE

VAN SON HOLLAND INK CORPORATION
92 Union Street, Mineola, NY 11501

Material Safety Data Sheet

OFFSET BLACK INK NON-OXIDIZING

Date: 2-12-99

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	1
Flammability	1
Reactivity	0

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: Van Son Holland Ink Corporation of America
92 Union Street, Mineola, NY 11501
Emergency Telephone: 516-294-8811
Product Class: Offset Black Ink Non-oxidizing

PARENT COMPANY:
Van Son Royal Dutch Printing Ink Factories
Hilversum, Holland
Chemtrec 24 Hour Emergency No. 800-424-9300

TRADE NAMES	MANUFACTURER'S CODE ID
AB Dick Acrylic Base Dense Black	10-2001, 10-2001-5
AB Dick Acrylic Base PANTONE Black	10-2013, 10-2013-5
AB Dick Acrylic Base Process Black	10-2026, 10-2026-5
Black 10904	VS100, VS150
Black Diamond	VS154
Colorlok Black	CL17110, CL17111, CL57110, CL57111
Infinity Black	VS103, VS153
Meg-a-magic Black	VS200
Rubber Base Plus Black 10850	VS101, VS151
Rubber Base Plus Black 12630	VS102, VS152
Soy Web Forms Black	VS38111
Sterling Black	VS107, VS157
Very Special Black Sable	17011,47011,57011
Very Special Midnight Black	17014, 47014, 57014

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Carbon Black	133-86-4	15-25	3.5mg/M3	3.5mg/M3	See 11
Organic Pigments	Various	2-10	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	30-50	N/A	N/A	No
Vegetable Oil	8001	20 30	N/A	N/A	No
NaphthenicSevere Hydrotreated Middle Distillate	64742-53-6	0-30	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	0-10	N/A	N/A	No

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200..... .....Carbon Black (dry pigment)

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Eye Contact– Direct contact may cause irritation.
Skin Contact– Prolonged contact or repeated exposure may cause minor irritation.
Inhalation– Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
Ingestion– May cause gastrointestinal irritation.
Medical Conditions aggravated by normal exposure– Persons with dermatitis should avoid skin contact.
Target Organs– Skin, eyes, lungs.
Primary Routes of entry– Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact** Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion** If swallowed, do not induce vomiting. Call a physician.
- **Inhalation** Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

Flash Point– Above 250°F Method used: closed cup
Explosion Limits– LEL: N/A UEL: N/A
Extinguishing Media– Foam, carbon dioxide, dry chemical. Water spray may be applied to cool exposed closed containers.
Unusual Fire and Explosion Hazards– Dense smoke may be generated when burning.
Carbon Monoxide and Carbon Dioxide generated as combustion products.
Special Fire Fighting Procedures– Self-contained breathing apparatus recommended.

ORIGINAL-KEEP IN FILE

6. ACCIDENTAL RELEASE MEASURES

Procedure when material spilled or released: Wipe up. Dispose of wipes in approved waste containers. If petroleum hydrocarbon is used, provide sufficient ventilation.
Waste Disposal Method: Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90° F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use sufficient ventilation.
Protective Gloves: Gloves recommended.
Respiratory Protection: None required.
Eye Protection: Goggles recommended.
Other Protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) 0.20 - 1.90 **lbs./gallon** 23 - 220 **Grams/liter Method 24**
Boiling Range °F: > 500°
Freezing Point °F: N/A
Vapor Density vs. Air: Heavier
Vapor Pressure: less than 0.04psi
Density: 8.50 - 9.00 **lbs./ gallon ASTM D1475**
Specific Gravity: 1.02-1.07
Type of Odor: Oily
Odor Threshold: N/A
Appearance: Black viscous paste.
pH: N/A
Evaporation Rate vs. Butyl Acetate: Slower
Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight: 2 - 22% **ASTM D2369**

10. STABILITY AND REACTIVITY

Product Stability ..... Stable
Conditions to Avoid ..... Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products ... None.
Hazardous Polymerization ..... Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogen ..... No
Mutagen ..... No
Teratogen ..... No
Reproductive Toxicity ... No

OSHA in December 1996 ruled that a printing ink mixture containing carbon black as evaluated by the International Agency for Research on Cancer (IARC) is "not classifiable as to their carcinogenicity to humans" (Group 3). Carbon Black is not present in such a form so as to present an exposure problem for employees. No materials present are considered carcinogenic by National Toxicology Program (NTP).

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION– **DOT (HM 181) :** Not required – **Shipping Labels:** None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) ..... All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302 ..... Contains no reportable materials
SARA Title III ..... None
FDA ..... This printing ink is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community) .... All ingredients listed.
California Proposition 65 ..... None
CONEG Legislation ..... Meets all current State and Heavy Metal limitations.
Canadian WHMIS ..... Non-controlled product
Vegetable Ink Printing Act of 1994 ..... Meets the 20% minimum requirement of vegetable oil in sheet fed inks

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation of America. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation of America assumes no legal responsibility for use or reliance on this data.

Prepared by Gus Lindquist, Consultant Date 2/12/99

Graphic Technology, Inc. 44-02 11th Street, Long Island City, NY 11101
AIR EMISSION CALCULATIONS:

PARAMETERS:

Operational Hours/Year: 16Hrs/Day x 5Days/Week x 50Weeks/Year = 4000Hrs/Year

Assumptions:

EP001: All Printing Equipment located in Pressroom on the 1st Floor contributes to 98% of Air Emissions.	98%
EP002: Three Duplicator Multi Presses in the Basement contribute to 2% of Air Emissions.	2%
Total Air Emissions:	100%

Graphic Technology, Inc. Product Information For Printing Operations:

Product	Density (#/Gal)	Total Product Usage (Gal/Yr)	Total Product Usage (#/Yr)	Total Weight% Voc	Actual #VOC/Gal	Emissions #/Yr	Emissions #/Hr
Anchor ARS-JP	7.90	240.00	1896.00	84.05	6.64	1593.60	0.40
Anchor Emerald JRZ	8.90	240.00	2136.00	21.12	1.88	451.20	0.11
Cleans All	8.26	18.00	148.62	13.32	1.10	19.80	0.00
Lithotine	6.59	12.00	79.06	89.70	5.91	70.92	0.02
Red Magic	7.26	12.00	87.07	100.33	7.28	87.36	0.02
Isopropyl Alcohol 99%	6.59	144.00	948.76	99.41	6.55	943.20	0.24
Superklene 1 1C	7.09	54.00	382.81	71.10	5.04	272.16	0.07
Autowash X	7.01	1320.00	9247.39	94.64	6.63	8751.60	2.19
Speedy	6.17	585.00	3610.39	47.15	2.91	1702.35	0.43
MRC	9.34	54.00	504.40	29.55	2.76	149.04	0.04
VanSon Overprint Varnish	7.90	0.00	1836.00	5.00	3.20	91.80	0.02
Inks	8.75	0.00	19586.00	5.00	1.00	979.30	0.24
Total		2679.00	40462.50	-	-	15112.33	3.78

ORIGINAL-KEEP IN FILE

Weight % of Hazardous Ingredients Obtained From MSDSs

Hazardous Ingredient	CAS #	ARS-JP Weight %	EMERALD Weight %	CLEANSALL Weight %	LITHOTINE Weight %	REDMAGIC Weight %	ISOPROPYL Weight %	SUPER KLENE Weight %	AUTOWASH Weight %
2-Butoxyethanol	111-76-2	54.15	7.66						5.00
Acetic Acid	64-19-7		5.00						
Aliphatic Petroleum Distillate	64741-41-9			15.00	85.00				40.00
Nonylphenoxypoly-Ethanol	9016-45-9			5.00					5.00
Propylene Glycol Mono Meth	108-65-6					55.00			
Aliphatic Petroleum Distillate	64742-48-9					25.00			5.00
Aromatic Petroleum Distillate	64742-95-6					15.00			40.00
Isopropanol 99%	67-63-0						99.00		
Aliphatic Petroleum Distillate	64742-88-7							55.00	
Aromatic Petroleum Distillate	64742-94-5							15.00	
Diethanolamine Oleate	93-83-4							15.00	
Triethanolamine Benzene Sul	1886-81-3							5.00	
Acetone	67-64-1								
Aliphatic Petroleum Distillate	64742-89-8								
Methylene Chloride	75-09-2								
Xylene	1330-20-7								
Misc. VOCs	NY998-00-0								
Total		54.15	12.66	20.00	85.00	95.00	99.00	90.00	95.00

ORIGINAL-KEEP IN FILE

SPEEDY Weight %	MRC Weight %	VARNISH Weight %	INKS Weight %	TOTAL Weight %	CAS #
				66.81	111-76-2
				5.00	64-19-7
				140.00	64741-41-9
				10.00	9016-45-9
				55.00	108-65-6
				30.00	64742-48-9
				55.00	64742-95-6
	15.00			114.00	67-63-0
				55.00	64742-88-7
				15.00	64742-94-5
				15.00	93-83-4
				5.00	1886-81-3
55.00				55.00	67-64-1
45.00				45.00	64742-89-8
	70.00			70.00	75-09-2
	15.00			15.00	1330-20-7
		5.00	5.00	10.00	NY998-00-0
100.00	100.00	5.00	5.00	760.81	

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Total Actual Annual Emissions

Hazardous Ingredient	CAS #	ARS-JP #/Yr	EMERALD #/Yr	CLEANSALL #/Yr	LITHOTINE #/Yr	REDMAGIC #/Yr	ISOPROPYL #/Yr	SUPER KLENE #/Yr	AUTOWASH #/Yr
2-Butoxyethanol	111-76-2	1026.68	163.62						462.37
Acetic Acid	64-19-7		106.80						
Aliphatic Petroleum Distillate	64741-41-9			22.29	67.20				3698.96
Nonylphenoxypoly-Ethanol	9016-45-9			7.43					462.37
Propylene Glycol Mono Meth	108-65-6					47.89			
Aliphatic Petroleum Distillate	64742-48-9					21.77			462.37
Aromatic Petroleum Distillate	64742-95-6					13.06			3698.96
Isopropanol 99%	67-63-0						939.27		
Aliphatic Petroleum Distillate	64742-88-7							210.54	
Aromatic Petroleum Distillate	64742-94-5							57.42	
Diethanolamine Oleate	93-83-4							57.42	
Triethanolamine Benzene Sul	1886-81-3							19.14	
Acetone	67-64-1								
Aliphatic Petroleum Distillate	64742-89-8								
Methylene Chloride	75-09-2								
Xylene	1330-20-7								
Misc. VOCs	NY998-00-0								
Total		1026.68	270.42	29.72	67.20	82.72	939.27	344.53	8785.02

ORIGINAL-KEEP IN FILE

SPEEDY #/Yr	MRC #/Yr	VARNISH #/Yr	INKS #/Yr	TOTAL #/Yr	EPOO1 TOTAL #/Yr	EPOO2 TOTAL #/Yr	CAS #	Hazardous Ingredient
				1652.67	1619.62	33.05	111-76-2	2-Butoxyethanol
				106.80	104.66	2.14	64-19-7	Acetic Acid
				3788.45	3712.68	75.77	64741-41-9	Aliphatic Petroleum Distillate
				469.80	460.40	9.40	9016-45-9	Nonylphenoxypoly-Ethanol
				47.89	46.93	0.96	108-65-6	Propylene Glycol Mono Meth
				484.14	474.45	9.68	64742-48-9	Aliphatic Petroleum Distillate
				3712.02	3637.78	74.24	64742-95-6	Aromatic Petroleum Distillate
	75.66			1014.93	994.63	20.30	67-63-0	Isopropanol 99%
				210.54	206.33	4.21	64742-88-7	Aliphatic Petroleum Distillate
				57.42	56.27	1.15	64742-94-5	Aromatic Petroleum Distillate
				57.42	56.27	1.15	93-83-4	Diethanolamine Oleate
				19.14	18.76	0.38	1886-81-3	Triethanolamine Benzene Sul
1985.71				1985.71	1946.00	39.71	67-64-1	Acetone
1624.67				1624.67	1592.18	32.49	64742-89-8	Aliphatic Petroleum Distillate
	353.08			353.08	346.02	7.06	75-09-2	Methylene Chloride
	75.66			75.66	74.15	1.51	1330-20-7	Xylene
		91.80	979.30	1071.10	1049.68	21.42	NY998-00-0	Misc. VOCs
3610.39	504.40	91.80	979.30	16731.45	16396.82	334.63		

ORIGINAL-KEEP IN FILE

Graphic Technology, Inc. 44-02 11th Street, Long Island City, NY 11101
Total Actual Hourly Emissions

Hazardous Ingredient	CAS #	ARS-JP #/Hr	EMERALD #/Hr	CLEANSALL #/Hr	LITHOTINE #/Hr	REDMAGIC #/Hr	ISOPROPYL #/Hr	SUPER KLENE #/Hr	AUTOWASH #/Hr
2-Butoxyethanol	111-76-2	0.257	0.041						0.116
Acetic Acid	64-19-7		0.027						
Aliphatic Petroleum Distillate	64741-41-9			0.006	0.017				0.925
Nonylphenoxypoly-Ethanol	9016-45-9			0.002					0.116
Propylene Glycol Mono Meth	108-65-6					0.012			
Aliphatic Petroleum Distillate	64742-48-9					0.005			0.116
Aromatic Petroleum Distillate	64742-95-6					0.003			0.925
Isopropanol 99%	67-63-0						0.235		
Aliphatic Petroleum Distillate	64742-88-7							0.053	
Aromatic Petroleum Distillate	64742-94-5							0.014	
Diethanolamine Oleate	93-83-4							0.014	
Triethanolamine Benzene Sul	1886-81-3							0.005	
Acetone	67-64-1								
Aliphatic Petroleum Distillate	64742-89-8								
Methylene Chloride	75-09-2								
Xylene	1330-20-7								
Misc. VOCs	NY998-00-0								
Total		0.257	0.068	0.007	0.017	0.021	0.235	0.086	2.196

ORIGINAL-KEEP IN FILE

Graphic Technology, Inc. 44-02 11th Street, Long Island City, NY 11101
Total Actual Hourly Emissions

SPEEDY #/Hr	MRC #/Hr	VARNISH #/Hr	INKS #/Hr	TOTAL #/Hr	EPOO1 TOTAL #/Hr	EPOO2 TOTAL #/Hr	CAS #	Hazardous Ingredient
				0.413	0.405	0.008	111-76-2	2-Butoxyethanol
				0.027	0.026	0.001	64-19-7	Acetic Acid
				0.947	0.928	0.019	64741-41-9	Aliphatic Petroleum Distillate
				0.117	0.115	0.002	9016-45-9	Nonylphenoxypoly-Ethanol
				0.012	0.012	0.000	108-65-6	Propylene Glycol Mono Meth
				0.121	0.119	0.002	64742-48-9	Aliphatic Petroleum Distillate
				0.928	0.909	0.019	64742-95-6	Aromatic Petroleum Distillate
	0.019			0.254	0.249	0.005	67-63-0	Isopropanol 99%
				0.053	0.052	0.001	64742-88-7	Aliphatic Petroleum Distillate
				0.014	0.014	0.000	64742-94-5	Aromatic Petroleum Distillate
				0.014	0.014	0.000	93-83-4	Diethanolamine Oleate
				0.005	0.005	0.000	1886-81-3	Triethanolamine Benzene Sul
0.496				0.496	0.486	0.010	67-64-1	Acetone
0.406				0.406	0.398	0.008	64742-89-8	Aliphatic Petroleum Distillate
	0.088			0.088	0.087	0.002	75-09-2	Methylene Chloride
	0.019			0.019	0.019	0.000	1330-20-7	Xylene
		0.023	0.245	0.268	0.262	0.005	NY998-00-0	Misc. VOCs
0.903	0.126	0.023	0.245	4.183	4.099	0.084		

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Graphic Technology, Inc.
44-02 11th Street
Long Island City, NY 11101

NON-ALCOHOL FOUNTAIN SOLUTION

Compliance with the Graphic Arts Part 234 of the NYS Regulations requires that the Fountain Solution contain 10% by weight or less of volatile organic compounds.

CALCULATIONS:

Recipe for Two Komori-Lithrone Color Offset Presses:

Anchor ARS-JP: 2oz/128oz/gal = 0.0156gal conc1
84.05% VOC

Anchor Emerald JRZ: 2oz/128oz/gal = 0.0156gal conc2
21.12% VOC

5 Gal mixture: 0.0156gal conc1 + 0.0156gal conc2 + (5 - 0.0156 - 0.0156)gal Water = 0.0156gal + 0.0156 + 4.9688gal = 5gal

%VOC by Volume:

=((0.8405)(0.0156gal)+ (0.2112)(0.0156))/5 gal mixt.
=(0.0164gal conc) /5 gal mixt.
=0.00328(100)
= .328% by Vol.

%VOC by Weight:

=((0.8405)(0.0156gal)(7.90lb/gal)+(0.2112)(0.0156gal)(8.90lb/gal))/
((0.0156gal)(7.90lb/gal)+
(0.0156gal)(8.90lb/gal)+(4.9688gal)(8.34lb/gal))
= (0.1329lb VOC Conc/41.70lb mixt.
= 0.00319lb/lb mixt. (100)
= .319% by Wgt.

Recipe for Two Miehle Roland, Two Heidelberg, and One Oliver Color Offset Presses:

Anchor ARS-JP: 1oz/128oz/gal = 0.00781gal conc1
84.05% VOC

Anchor Emerald JRZ: 1oz/128oz/gal = 0.00781gal conc2
21.12% VOC

3 Gal mixture: 0.00781gal conc1 + 0.00781gal conc2 + (3 - 0.00781 - 0.00781)gal Water = 0.00781gal + 0.00781 + 2.984gal = 3gal

Graphic Technology, Inc.
44-02 11th Street
Long Island City, NY 11101

ORIGINAL-KEEP IN FILE

CALCULATIONS Con't:

%VOC by Volume:

=((0.8405)(0.00781gal)+ (0.2112)(0.00781))/3 gal mixt.
=(0.0082gal conc) /3 gal mixt.
=0.00274(100)
= .274% by Vol.

%VOC by Weight:

=((0.8405)(0.00781gal)(7.90lb/gal)+(0.2112)(0.00781gal)(8.90lb/gal))/
((0.00781gal)(7.90lb/gal)+
(0.00781gal)(8.90lb/gal)+(2.984gal)(8.34lb/gal))
= (0.0665lb VOC Conc)/25.018lb mixt.
= 0.00266lb/lb mixt. (100)
= .266% by Wgt.

ORIGINAL-KEEP IN FILE

Graphic Technology, Inc.
44-02 11th Street
Long Island City, NY 11101

CALCULATIONS:

Hours of Operation: (16Hrs/Day)(250Days/Yr) = 4000Hrs/Yr

1. **Product:** Anchor ARS-JP (MSDS #1)
Annual Usage: (240Gal/Yr)(7.90lb/Gal) = 1896.00lb/Yr

Hazardous Ingredients:

2-Butoxyethanol: CAS No. 111-76-2; 54.15% by wgt.

(.5415lb/lb)(1896.0lb/Yr) = 1026.68lb/Yr
(1026.68lb/Yr)/(4000Hr/Yr) = 0.257lb/Hr

2. **Product:** Anchor Emerald JRZ (MSDS #2)
Annual Usage: (240Gal/Yr)(8.90lb/Gal) = 2136.00lb/Yr

Hazardous Ingredients:

2-Butoxyethanol: CAS No. 111-76-2; 7.66% by wgt.

(.0766lb/lb)(2136.00lb/Yr) = 163.62lb/Yr
(163.62lb/Yr)/(4000Hr/Yr) = 0.041lb/Hr

Acetic Acid: CAS No. 64-19-7; 5% by wgt.

(.05lb/lb)(2136.00lb/Yr) = 106.80lb/Yr
(106.80lb/Yr)/(4000Hr/Yr) = 0.0267lb/Hr

3. **Product:** Cleans All (MSDS #3)
Annual Usage: (18Gal/Yr)(0.99S.G.)(8.34lb/Gal) = 148.62lb/Yr

Hazardous Ingredients:

Aliphatic Petroleum Distillate: CAS No. 64741-41-9; 15% by wgt.

(.15lb/lb)(148.62lb/Yr) = 22.29lb/Yr
(22.29lb/Yr)/(4000Hr/Yr) = 0.006lb/Hr

Nonylphenoxypoly(ethyleneoxy)ethanol: CAS No. 9016-45-9; 5% by wgt.

(.05lb/lb)(148.62lb/Yr) = 7.43lb/Yr
(7.43lb/Yr)/(4000Hr/Yr) = 0.002lb/Hr

4. **Product:** Lithotine (MSDS #4)
Annual Usage: (12Gal/Yr)(0.79S.G.)(8.34lb/Gal) = 79.06lb/Yr

Hazardous Ingredients:

Aliphatic Petroleum Distillate: CAS No. 64741-41-9; 85% by wgt.

(.85lb/lb)(79.06lb/Yr) = 67.20lb/Yr

ORIGINAL-KEEP IN FILE

(67.20lb/Yr)/(4000Hr/Yr) = 0.017lb/Hr

5. **Product:** Red Magic (MSDS #5)
Annual Usage: (12Gal/Yr)(0.87S.G.)(8.34lb/Gal) = 87.07lb/Yr

Hazardous Ingredients:

Propylene Glycol Mono Methyl Ether Acetate: CAS No. 108-65-6; 55% by wgt.

(.55lb/lb)(87.07lb/Yr) = 47.89lb/Yr
(47.89lb/Yr)/(4000Hr/Yr) = 0.012b/Hr

Aliphatic Petroleum Distillate: CAS No. 64742-48-9; 25% by wgt.

(.25lb/lb)(87.07lb/Yr) = 21.77lb/Yr
(21.77lb/Yr)/(4000Hr/Yr) = 0.005lb/Hr

Aromatic Petroleum Distillate: CAS No. 64742-95-6; 15% by wgt.

(.15lb/lb)(87.07lb/Yr) = 13.06lb/Yr
(13.06lb/Yr)/(4000Hr/Yr) = 0.003lb/Hr

6. **Product:** Isopropyl Alcohol (MSDS #6)
Annual Usage: (144Gal/Yr)(0.79S.G.)(8.34lb/Gal) = 948.76lb/Yr

Hazardous Ingredients:

Isopropanol: CAS No. 67-63-0; 99% by wgt.

(.99lb/lb)(948.76lb/Yr) = 939.27lb/Yr
(939.27lb/Yr)/(4000Hr/Yr) = 0.235lb/Hr

7. **Product:** Superklene 1 1C (MSDS #7)
Annual Usage: (54Gal/Yr)(0.85S.G.)(8.34lb/Gal) = 382.81lb/Yr

Hazardous Ingredients:

Aliphatic Petroleum Distillate: CAS No. 64742-88-7; 55% by wgt.

(.55lb/lb)(382.81lb/Yr) = 210.54lb/Yr
(210.54lb/Yr)/(4000Hr/Yr) = 0.053lb/Hr

Aromatic Petroleum Distillate: CAS No. 64742-94-5; 15% by wgt.

(.15lb/lb)(382.81lb/Yr) = 57.42lb/Yr
(57.42lb/Yr)/(4000Hr/Yr) = 0.014lb/Hr

Diethanolamine Oleate: CAS No. 93-83-4; 15% by wgt.

(.15lb/lb)(382.81lb/Yr) = 57.42lb/Yr
(57.42lb/Yr)/(4000Hr/Yr) = 0.014lb/Hr

ORIGINAL-KEEP IN FILE

Triethanolamine Benzene Sulfonate: CAS No. 1886-81-3; 5% by wgt.

(.05lb/lb)(382.81lb/Yr) = 19.14lb/Yr
(19.14lb/Yr)/(4000Hr/Yr) = 0.0041b/Hr

8. **Product:** Autowash X (MSDS #8)
Annual Usage: (1320Gal/Yr)(0.84S.G.)(8.34lb/Gal) = 9247.39lb/Yr

Hazardous Ingredients:

Aliphatic Petroleum Distillate: CAS No. 64741-41-9; 40% by wgt.

(.40lb/lb)(9247.39lb/Yr) = 3698.96lb/Yr
(3698.96lb/Yr)/(4000Hr/Yr) = 0.925lb/Hr

Aromatic Petroleum Distillate: CAS No. 64742-95-6; 40% by wgt.

(.40lb/lb)(9247.39lb/Yr) = 3698.96lb/Yr
(3698.96lb/Yr)/(4000Hr/Yr) = 0.925lb/Hr

2-Butoxyethanol: CAS No. 111-76-2; 5% by wgt.

(.05lb/lb)(9247.39lb/Yr) = 462.37lb/Yr
(462.37lb/Yr)/(4000Hr/Yr) = 0.116lb/Hr

Aliphatic Petroleum Distillate: CAS No. 64742-48-9; 5% by wgt.

(.05lb/lb)(9247.39lb/Yr) = 462.37lb/Yr
(462.37lb/Yr)/(4000Hr/Yr) = 0.116lb/Hr

Nonylphenoxypoly(ethyleneoxy)ethanol: CAS No. 9016-45-9; 5% by wgt.

(.05lb/lb)(9247.39lb/Yr) = 462.37lb/Yr
(462.37lb/Yr)/(4000Hr/Yr) = 0.116lb/Hr

9. **Product:** Speedy (MSDS #9)
Annual Usage: (585Gal/Yr)(0.74S.G.)(8.34lb/Gal) = 3610.39lb/Yr

Hazardous Ingredients:

Acetone: CAS No. 67-64-1; 55% by wgt.

(.55lb/lb)(3610.39lb/Yr) = 1985.71lb/Yr
(1985.71lb/Yr)/(4000Hr/Yr) = 0.496lb/Hr

Aliphatic Petroleum Distillate: CAS No. 64742-89-8; 45% by wgt

(.45lb/lb)(3610.39lb/Yr) = 1624.67lb/Yr
(1624.67lb/Yr)/(4000Hr/Yr) = 0.406lb/Hr

ORIGINAL-KEEP IN FILE

10. Product: MRC (MSDS #10)
Annual Usage: (54Gal/Yr)(1.12S.G.)(8.34lb/Gal) = 504.40lb/Yr

Hazardous Ingredients:

Methylene Chloride: CAS No. 75-09-2; 70% by wgt.

(.70lb/lb)(504.40lb/Yr) = 353.08lb/Yr
(353.08lb/Yr)/(4000Hr/Yr) = 0.088lb/Hr

Xylene: CAS No. 1330-20-7; 15% by wgt.

(.15lb/lb)(504.40lb/Yr) = 75.66lb/Yr
(75.66lb/Yr)/(4000Hr/Yr) = 0.019lb/Hr

Isopropanol: CAS No. 67-63-0; 15% by wgt.

(.15lb/lb)(504.40lb/Yr) = 75.66lb/Yr
(75.66lb/Yr)/(4000Hr/Yr) = 0.019lb/Hr

11. Product: Varnish (MSDSs #11)
Offset Printing Ink Matte Overprint Varnish do not list any Hazardous Ingredients on the MSDS provided, however VOCs are assumed to be approximately 5% for the emissions calculations.

Annual Usage: 1836lb/Yr

Hazardous Ingredients:

VOCs: CAS No. NY998-00-0; 5% by wgt.

(.05lb/lb)(1836lb/Yr) = 91.80lb/Yr
(91.80b/Yr)/(4000Hr/Yr) = 0.023lb/Hr

12. Product: Inks (MSDSs #12A-12E)
Offset Printing Inks do not list any Hazardous Ingredients on the MSDSs provided, however VOCs are assumed to be approximately 5% for the emissions calculations.

Annual Usage: 19586lb/Yr

Hazardous Ingredients:

VOCs: CAS No. NY998-00-0; 5% by wgt.

(.05lb/lb)(19586lb/Yr) = 979.30lb/Yr
(979.30lb/Yr)/(4000Hr/Yr) = 0.245lb/Hr

DP 386-99Z

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

DP | LOCATION | FACILITY | EMISSION POINT | I
A | 6300000 | X | A5N | 00001

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

ORIGINAL-KEEP IN FILE

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City | 4. STATE: NY | 5. ZIP: 11101
6. OWNER CLASSIFICATON: A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE F. ☐ MUNICIPAL H. ☐ HOSPITAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President | 8. TELEPHONE: (718) 706-7100
9. NAME OF AUTHORIZED AGENT | 10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE | 13. STATE | 14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE | 16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1 | 17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City | 22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02 | 24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: 04 (MO) / 99 (YR)
26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE B. ☐ MODIFICATION C. ☒ EXISTING SOURCE

SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS. proof of publication rec'd 10/15/99

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
6300000	X A5N	588351	1327	52	09/29/99	10/15/99	Christine D Robertshaw

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

*311D

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS:

1. PA-386-99Z	2. EOST(AP)
3.	4.
5.	6.
7.	8.

LOCATION 630000 FACILITY A5 EMISSION POINT 0001 I

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PA-386-99Z

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

ORIGINAL-KEEP IN FILE

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
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7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President | 8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT | 10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE | 13. STATE | 14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, P.E. | 16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1 | 17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City | 22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02 | 24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: 04 / 99 (MO / YR) | 26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE B. ☐ MODIFICATION C. ☒ EXISTING SOURCE

SEC. B

29. EMISSION POINT ID	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
0001	14	-70	4	(2) 41x41 Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON: Winter	Spring	Summer	Fa
1302	16	250	25	25	25	25

SEC. C

41. DESCRIBE PROCESS OR UNIT

1. All Equipment Located on 1st Floor is Vented to room - No Ductwork. Windows located
2. Along Building Walls & (2) 4'x4' Window Fans. Equipment: Two Komori-Lithrone Color Offset
3. Presses; (2) Miehle Poland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
4. & (2) Folders.
5.
6.
7.
8.

SEC. D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 1 of 3

STATE OF NEW YORK — TERESE MARIE KINSLEY — No. 066714 — LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

SECTION F

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) 10*	ANNUAL EMISSIONS (LBS/YR) PERMISSIB
54. 2-Butoxyethanol	55. 00111-76-2	56.	57.	58. B	59. 0.405	60. 1	61. 6	62. .405	63. 0	64. 0.405	65. 0.405	66. 1.62	67. 3	68. 1.62
69. Acetic Acid	70. 00064-19-7	71.	72.	73. C	74. 0.026	75. 1	76. 6	77. .026	78. 0	79. 0.026	80. 0.026	81. 1.04	82. 2	83. 1.04
84. Aliphatic Petrol. Distill.	64741-41-9	86.	87.	88. B	89. 0.928	90. 1	91. 6	92. .928	93. 0	94. 0.928	95. 0.928	96. 3.71	97. 3	98. 3.71
99. Nonylphenoxypoly-Eth.	09016-45-9	101.	102.	103. B	104. 0.115	105. 1	106. 6	107. .115	108. 0	109. 0.115	110. 0.115	111. 4.60	112. 2	113. 4.60
114. Propylene Glycol Mono Meth	00108-65-6	116.	117.	118. B	119. 0.012	120. 1	121. 6	122. .012	123. 0	124. 0.012	125. 0.012	126. 4.69	127. 1	128. 4.69
129. Aliphatic Petrol. Distill.	64742-48-9	131.	132.	133. B	134. 0.119	135. 1	136. 6	137. .119	138. 0	139. 0.119	140. 0.119	141. 4.74	142. 2	143. 4.74

SEC. G

SOLID FUEL TYPE	SOLID FUEL TONS / YR	% S	LIQUID FUEL TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	% S	GAS TYPE	GAS THOUSANDS OF CF/YR	BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Robert Macdonald | DATE: 9/23/99

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY
630000	A5N	583513		2752	09/29/99	10/15/99	Christine D'Arcangelo

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
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3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT. CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

*311D

174. SPECIAL CONDITIONS

1. PA-386-99Z
2. EOSI(AP)
3.
4.
5.
6.
7.
8.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

OP | LOCATION | FACILITY | EMISSION POINT | I

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

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2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City
4. STATE: NY
5. ZIP: 11101
6. OWNER CLASSIFICATION: A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE F. ☐ MUNICIPAL H. ☐ HOSPITAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President
8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT: O
10. TELEPHONE:
11. NUMBER AND STREET ADDRESS: ORIGINAL
12. CITY - TOWN - VILLAGE:
13. STATE:
14. ZIP:
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1
17. TELEPHONE: (516) 748-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM):
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City
22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02
24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: MO 04 / YR 99
26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE C. ☒ EXISTING SOURCE B. ☐ MODIFICATION

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)
00001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985

37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON Winter	Spring	Summer	Fall
	16	250	25	25	25	25

SECTION C

41. DESCRIBE PROCESS OR UNIT:
1. All Equipment Located on 1st Floor is vented to room - No Ductwork. Windows located
3. Along Building Walls & (2) 4'x4' Window Fans.
4. Equipment: Two Komori-Lithrone Color Offset
5. Presses; (2) Miehle Poland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
7. & (2) Folders.
8.

SECTION D

42. EMISSION CONTROL EQUIPMENT I.D.	43. CONTROL TYPE	44. MANUFACTURER'S NAME AND MODEL NUMBER	45. DISPOSAL METHOD	46. DATE INSTALLED MONTH / YEAR	47. USEFUL LIFE
	99	None		/	
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 2 of 3

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

SECTION F

54. CONTAMINANT NAME	55. CAS NUMBER	56. INPUT OR PRODUCTION	57. UNIT	58. ENV. RATING	59. EMISSIONS ACTUAL	60. UNIT	61. HOW DET.	62. PERMISSIBLE	63. % CONTROL EFFIC'CY	64. HOURLY EMISSIONS (LBS/HR) ERP	65. ACTUAL	66. ANNUAL EMISSIONS (LBS/YR) ACTUAL	67. 10*	68. PERMISSIB
54. Aromatic Petrol. Distill.	64742-95-6			58. B	59. 0.909	60. 1	61. 6	62. .909	63. 0	64. 0.909	65. 0.909	66. 3.63	67. 3	68. 3.63
69. Isopropanol 99%	70. 00067-63-0	71.	72.	73. B	74. 0.249	75. 1	76. 6	77. .249	78. 0	79. 0.249	80. 0.249	81. 9.94	82. 2	83. 9.94
84. Aliphatic Petrol. Distill.	64742-88-7	85.	86.	88. B	89. 0.052	90. 1	91. 6	92. .052	93. 0	94. 0.052	95. 0.052	96. 2.06	97. 2	98. 2.06
99. Aromatic Petrol. Distill.	64742-94-5	100.	101.	102. 103. B	104. 0.014	105. 1	106. 6	107. .014	108. 0	109. 0.014	110. 0.014	111. 5.62	112. 1	113. 5.62
114. Diethanolamine Oleate	115. 00093-83-4	116.	117.	118. C	119. 0.014	120. 1	121. 6	122. .014	123. 0	124. 0.014	125. 0.014	126. 5.62	127. 1	128. 5.62
129. Triethanolamine Benzene	130. 1886-81-3	131.	132.	133. B	134. 0.005	135. 1	136. 6	137. .005	138. 0	139. 0.005	140. 0.005	141. 1.87	142. 1	143. 1.87

SECTION G

SOLID FUEL TYPE	TONS / YR	% S	LIQUID FUEL TYPE	THOUSANDS OF GALLONS/YR	% S	GAS TYPE	THOUSANDS OF CF/YR	BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 288

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Robert E. Macdonald — DATE: 9/23/99

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
					/ /	/ /	

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
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CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS

1.	2.
3.	4.
5.	6.
7.	8.

SCRN: BARSSNI1
TERM: 0961

DEPT OF ENVIRONMENTAL PROTECTION
NOTICE MENU SCREEN 10-21-99 2

DATE: 10/20/99
TIME: 16:25:17

BUREAU OF AIR RESOURCES
59-17 JUNCTION BLVD., CORONA, N.Y. 11368
RECORD CONTROL

FEE DEFICIENCY

FACILITY NO.: 4 XA5N
INSTALLATION: PA0386997
EXPIRES ON: N/A

OWNER:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

PREMISES ADDRESS:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

FLOOR: 1
BORO: QUEENS

CMD: MSG:
SCRN: ~~BARSSNI3~~
TERM: 0961
INSTALLATION: PA0386997

DEPT OF ENVIRONMENTAL PROTECTION
PARAGRAPH COMPOSITION SCREEN

DATE: 10/20/99
TIME: 16:25:26

ON THE NOTICE, THIS WILL BE TEXT ITEM 01

THIS IS TO NOTIFY YOU THAT THERE IS A BALANCE DUE ON THE ABOVE REFERENCED APPLICATION IN THE AMOUNT OF:$ 275.00 . YOUR CERTIFICATE, REGISTRATION, OR WORK PERMIT CAN NOT BE RELEASED UNTIL FULL PAYMENT IS RECEIVED.
PLEASE MAKE YOUR CHECK OR MONEY ORDER PAYABLE TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SEND IT TO THE BUREAU OF AIR RESOURCES, 59-17 JUNCTION BLVD. 9TH FLR., CORONA, NY 11368 WITHOUT DELAY. IT IS A VIOLATION OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK, TITLE 24 TO OPERATE SUCH EQUIPMENT WITHOUT A VALID CERTIFICATE.

APPLICATION FEE:$ 525.00 (ENV. RATING: "B"; CFM 5,001 THRU 20,000)
AMOUNT PAID:$ 250.00
BALANCE DUE:$ 275.00
PLEASE REFER TO THE FEE SCHEDULE ON THE REVERSE SIDE OF THIS NOTICE.
ATTENTION:THIS NOTICE MUST BE RETURNED WITH YOUR PAYMENT.

_ ENTER 'X' TO ADD THIS TEXT ITEM TO THE NOTICE.
_ LOOK AGAIN AT TEXT ITEM __

CMD: _____ MSG:

SCRN: BARSSNI1
TERM: 0961

DEPT OF ENVIRONMENTAL PROTECTION
NOTICE MENU SCREEN 10-21-99 G

DATE: 10/20/99
TIME: 16:25:17

BUREAU OF AIR RESOURCES
59-17 JUNCTION BLVD., CORONA, N.Y. 11368
RECORD CONTROL

FEE DEFICIENCY

FACILITY NO.: 4 XA5N
INSTALLATION: PA0386997
EXPIRES ON: N/A

OWNER:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

PREMISES ADDRESS:
GRAPHIC TECHNOLOGY INC.
44-02 11 STREET
QUEENS NY 11101

FLOOR: 1
BORO: QUEENS

CMD: MSG:

SCRN: ~~BARSSNI3~~
TERM: 0961
INSTALLATION: PA0386997

DEPT OF ENVIRONMENTAL PROTECTION
PARAGRAPH COMPOSITION SCREEN

DATE: 10/20/99
TIME: 16:25:26

ON THE NOTICE, THIS WILL BE TEXT ITEM 01

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ATTENTION:THIS NOTICE MUST BE RETURNED WITH YOUR PAYMENT.

ENTER 'X' TO ADD THIS TEXT ITEM TO THE NOTICE.
LOOK AGAIN AT TEXT ITEM __

CMD: _____ MSG:

WELKIN
ENVIRONMENTAL
ENGINEERING
MANAGEMENT co.
(516) 798 - 4525

September 22, 1999

Mr. R.A. Hodge, P.E.
Director of Engineering
Bureau of Air, Noise & Hazardous Materials
NYC Department of Environmental Protection
59-17 Junction Blvd., 9th Floor
Corona, NY 11368

Dear Mr. Hodge:

I have been retained as the Professional Engineer for Graphic Technology, Inc. located at 44-02 11th Street, Long Island City, NY 11101, for the purposes of completing the air permit application for a legalization, and am authorized to submit this application on their behalf.

Enclosed please find our application for an air emission permit for ten presses and related equipment. Included in the application are the following documents:

- Form APC-III PA: Three Copies for each emission point;
- Professional Certification: Three Copies for each emission point ;
- NYSDEC Form 76-19-3: Three Copies of Pages 1 through 3 of 3 for each emission point (EP001 & EP002);
- Plot Plan/Equipment Drawings: Three Copies for each emission point of Drawing One with two sheets;
- One Set of Spreadsheets, Air Emission Calculations, and MSDSs for Chemicals used;
- A check made payable to NYCDEP for $500.00 to cover the filing fee.

Feel free to call if you have any questions.

Sincerely,
WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.

Terese M. Kinsley

Terese M. Kinsley, P.E.
Environmental Engineer

Cc: Mr. Robert Macdonald, Graphic Technology, Inc.
Mr. Fred Shapiro, PF Technical Services, Inc.

Printed on Recycled Paper

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

INDUSTRIAL PROCESSES DIVISION
ENVIRONMENTAL RATING REPORT
SUMMARY OF POINTS OF EMISSION

EN NO. _____

Premise Identification No.

1. **Company Name** Graphic Technology, Inc.
2. **Premise Address** 44-02 11th Street, Long Island City **Zip** 11101
3. **Mailing Address** 44-02 11th Street, Long Island City **Zip** 11101

   Telephone No. (718) 706-7600
4. **Name of Person Preparing Report** Terese M. Kinsley, PE.
5. **Address** 67 Fairwater Ave., Massapequa, NY **Zip** 11758
6. **Telephone No.** (516) 798-4525

7. SEC.	LOT	BLOCK
	13	449

8. Emission Point No.	9. Operation Producing Emission	10. Environmental Rating Proposed	Assigned By BAR
00001	2 Komori-Lithrone, 2 Miehle Roland, 2 Heidelberg & 1 Oliver Color offset Presses; 2 Cutters and 2 Folders.	C	B AP 10/15/99
00002	3 Duplicator Multi Presses		

This Report is: **New** ☒ **Revision** ☐ **Addendum** ☐

11. **Signature** Terese M. Kinsley **Title** P.E. **Date** 9/22/99

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107
JOEL A. MIELE SR., P.E., Commissioner

ROBERT C. AVALTRONI
Deputy Commissioner

Bureau of Air Noise & Hazardous Materials

DEP RECORDS CONTROL
1999 SEP 29 A 11:00

XASN

ORIGINAL-KEEP IN FILE

Date: September 21, 1999

PA0386-992
(Installation Number)

Rec'd $ 250 Receipt No. 338547
B.A.N.H. Chief

(EN Number)

Re: 44-02 11th Street, Long Island City, Queens, NY 11101 (1st floor)
(Premise Address) (Boro)

PROFESSIONAL CERTIFICATION

Being duly mindful of my responsibilities as a Licensed Professional Engineer in the State of New York and acting as Designated Agent for the applicant, I hereby certify that the application, plans and all supplementary documents submitted in connection with this filing are complete and fully comply with all applicable laws, codes, rules, regulations and directives of the Department of Environmental Protection, Bureau of Air, Noise & Hazardous Materials of the City of New York in effect at the time filed.

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley
P.E. Seal & Signature

FOR DEP USE ONLY	

PS73

Company Name of Installer: Graphic Technology, Inc.

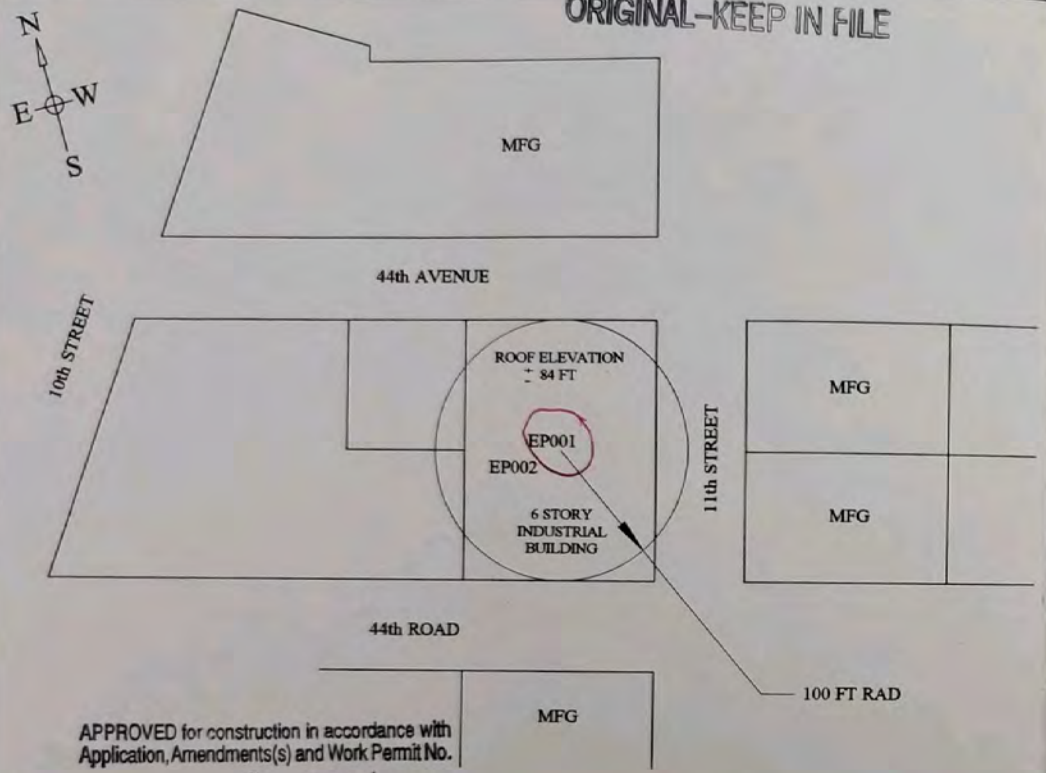
Company Address: 44-02 11th Street.

Town or Boro Long Island City State: NY Zip: 11101

Installer's Name: Robert E. Macdonald Title: Vice President

Installer's Signature: Robert Macdonald

ORIGINAL–KEEP IN FILE

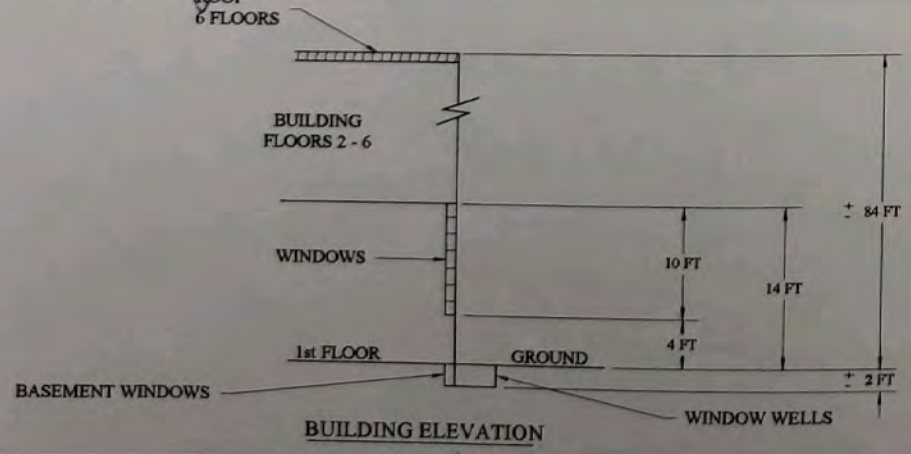


APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.

PA-386/99Z

A. Roberzghsky — Engineer — 10/15/99 — Date

PLOT PLAN



BUILDING ELEVATION

NOTES:

1. EP001 = ALL EQUIPMENT LOCATED AT 44-02 11th STREET ON THE FIRST FLOOR IS VENTED TO THE ROOM. WINDOWS ARE LOCATED ALONG THE BUILDING WALLS. ROOM IS VENTED THROUGH TWO 4 FT X 4 FT WINDOW FANS: 1 Hp, 1 PHASE, 11,985 CFM. THERE IS NO DUCTWORK.

2. THE FOLLOWING PROCESS EQUIPMENT IS LOCATED AT GRAPHIC TECHNOLOGY, INC., 44-02 11th STREET ON THE FIRST FLOOR, KNOWN AS EP001:

   (A) KOMORI - LITHRONE 40" - 6 COLOR + COATER OFFSET PRESS: 45'L X 7.3'W X 7.1'H.

   (B) KOMORI - LITHRONE 26" - 6 COLOR WATERLESS OFFSET PRESS: 27.5'L X 4'W X 5.7'H.

   (C) 2 - MIEHLE ROLAND 40" - 4 COLOR OFFSET PRESSES: EACH 27'L X 6'W X 6.8'H.

   (D) HEIDELBERG 40" - 2 COLOR OFFSET PRESS: 11.8'L X 5.3'W X 6.5'H.

   (E) HEIDELBERG 20" GTO - 4 COLOR OFFSET PRESS: 12'L X 3.3'W X 5'H.

   (F) OLIVER - 272 SAKURAI 28" - 2 COLOR OFFSET PRESS: 11'L X 4.5'W X 5.8'H.

   (G) CUTTER: 6'L X 6.7'W X 5.7'H.

   (H) CUTTER: 5'L X 5.5'W X 4.2'H.

   (I) FOLDER: 8'L X 2.5'W X 4.8'H.

   (J) FOLDER: 9'L X 3'W X 4'H.

3. EP002 = THREE DUPLICATOR MULTI PRESSES LOCATED IN THE BASEMENT VENTED TO ROOM. EACH 11 X 17 MULTI PRESS IS 5.5 FT LONG X 2 FT WIDE X 4.25 FT HIGH. WINDOWS IN THE BASEMENT ARE BELOW GRADE IN WINDOW WELLS.

4. THIS PROPERTY IS LOCATED IN THE BOROUGH OF QUEENS, BLOCK 449, LOT 13, ZONING M3-1.



KEY MAP

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER

Terese M. Tinsley

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

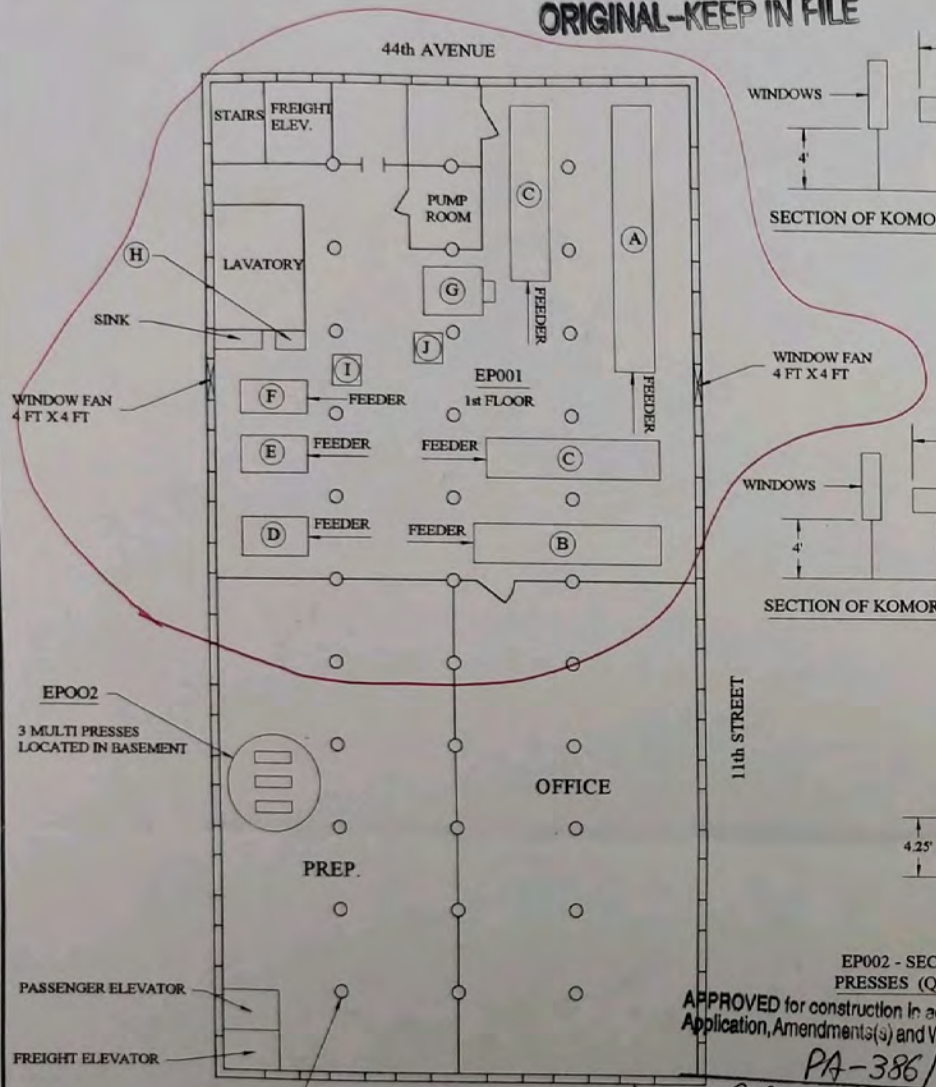
SEPTEMBER, 1999

1

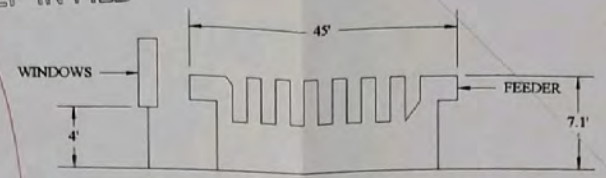
SHEET 1 OF 2

SCALE: NONE

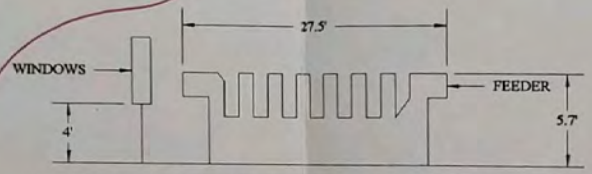
ORIGINAL-KEEP IN FILE



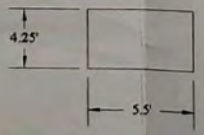
FLOOR PLAN



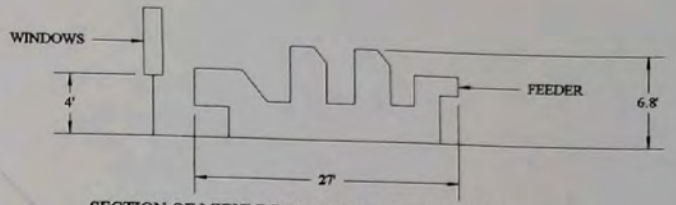
SECTION OF KOMORI LITHRONE 40" - 6 COLOR + COATER



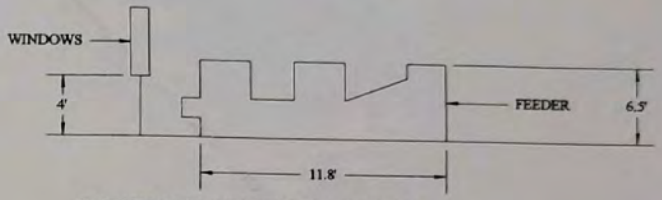
SECTION OF KOMORI LITHRONE 26" - 6 COLOR WATERLESS



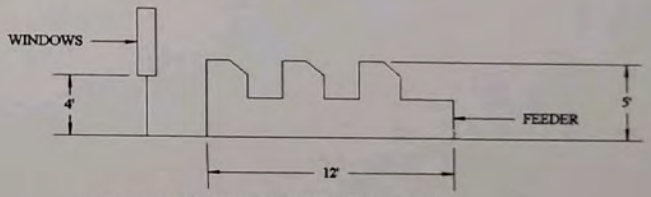
EP002 - SECTION OF MULTI DUPLICATOR PRESSES (QTY 3) LOCATED IN BASEMENT



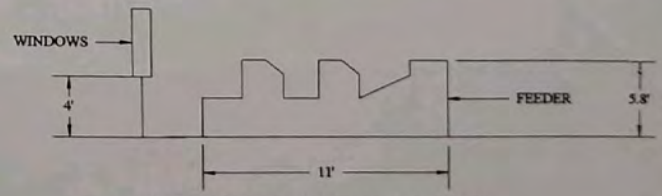
SECTION OF MIEHLE ROLAND 40" - 4 COLOR (QTY 2)



SECTION OF HEIDELBERG 40" - 2 COLOR



SECTION OF HEIDELBERG 20" GTO - 4 COLOR



SECTION OF OLIVER-272 SAKURAI 28" - 2 COLOR

APPROVED for construction in accordance with Application, Amendments(s) and Work Permit No.
PA-386/99Z
A. Bberezhnyy 10/15/99
Engineer Date

STATE OF NEW YORK
TERESE MARIE KINSLEY
No. 066714
LICENSED PROFESSIONAL ENGINEER
Terese M. Kinsley

GRAPHIC TECHNOLOGY, INC.
44-02 11th STREET
LONG ISLAND CITY, NY 11101

WELKIN ENVIRONMENTAL
ENGINEERING MANAGEMENT co.
67 FAIRWATER AVENUE
MASSAPEQUA, NY 11758

SEPTEMBER, 1999

1

SHEET 2 OF 2

SCALE: NONE

PA0386-99Z

OP | LOCATION | FACILITY | EMISSION POINT | I

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISON OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

ORIGINAL

SECTION A

1. NAME OF OWNER / FIRM: Graphic Technology, Inc.
2. NUMBER AND STREET ADDRESS: 44-02 11th Street
3. CITY - TOWN - VILLAGE: Long Island City | 4. STATE: NY | 5. ZIP: 11101
6. OWNER CLASSIFICATON: A. ☐ COMMERCIAL C. ☐ UTILITY E. ☐ STATE F. ☐ MUNICIPAL H. ☐ HOSPITAL I. ☐ RESIDENTIAL B. ☒ INDUSTRIAL D. ☐ FEDERAL G. ☐ EDUC. INST. J. ☐ OTHER
7. NAME & TITLE OF OWNERS REPRESENTATIVE: Robert E. Macdonald, Vice President | 8. TELEPHONE: (718) 706-7600
9. NAME OF AUTHORIZED AGENT | 10. TELEPHONE
11. NUMBER AND STREET ADDRESS
12. CITY - TOWN - VILLAGE | 13. STATE | 14. ZIP
15. NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: Terese M. Kinsley, PE
16. N.Y.S. P.E. OR ARCHITECT LICENSE NO.: 066714-1
17. TELEPHONE: (516) 798-4525
18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT
19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
20. FACILITY LOCATION (NUMBER AND STREET ADDRESS): 44-02 11th Street
21. CITY - TOWN - VILLAGE: Long Island City | 22. ZIP: 11101
23. BUILDING NAME OR NUMBER: 44-02 | 24. FLOOR NAME OR NUMBER: 1st Floor
25. START UP DATE: MO 04 / YR 99
26. DRAWING NUMBERS OF PLANS SUBMITTED: Drawing No. 1 | 2 of 2 Sheets
27. PERMIT TO CONSTRUCT: A. ☐ NEW SOURCE B. ☐ MODIFICATION
28. CERTIFICATE TO OPERATE: A. ☐ NEW SOURCE B. ☐ MODIFICATION C. ☒ EXISTING SOURCE

SECTION B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSIONS (IN.)	34. EXIT TEMP.(°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW RATE (ACFM)	37. SOURCE CODE	38. HRS / DAY	39. DAYS / YR	40. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)
P0001	14	-70	4	(2) 4'x4' Window Fans	70	12.5	11,985		16	250	25 / 25 / 25 / 25

SECTION C

41. DESCRIBE PROCESS OR UNIT:
1. All Equipment Located on 1st Floor is Vented to room - No Ductwork. Windows located
2. Along Building Walls & (2) 4'x4' Window Fans.
3. Equipment: Two Komori-Lithrone Color Offset
4. Presses; (2) Miehle Roland, (2) Heidelberg & (1) Oliver Color Offset Presses; (2) Cutters
5. & (2) Folders.
6.
7.
8.

SECTION D

EMISSION CONTROL EQUIPMENT I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42.	43. 99	44. None	45.	46. /	47.
48.	49.	50.	51.	52. /	53.

SECTION E

CALCULATIONS

Please See Attached Spreadsheets and Air Emissions Calculations.

Assume All Printing Equipment Located in Pressroom on 1st Floor Contribute to 98% of Total Emissions.

EP00001 Page 3 of 3

STATE OF NEW YORK — TERESE MARIE KINSLEY — No. 066714 — LICENSED PROFESSIONAL ENGINEER

Terese M. Kinsley

SECTION F

CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV. RATING	EMISSIONS ACTUAL	EMISSIONS UNIT	EMISSIONS HOW DET.	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) 10*	ANNUAL EMISSIONS (LBS/YR) PERMISSIE
54. Acetone	55. 00067-64-1	56.	57.	58. C	59. 0.486	60. 1	61. 6	62. .486	63. 0	64. 0.486	65. 0.486	66. 1.94	67. 3	68. 1.94
69. Aliphatic Petrol Distill.	70. 64742-89-8	71.	72.	73. B	74. 0.398	75. 1	76. 6	77. .398	78. 0	79. 0.398	80. 0.398	81. 1.59	82. 3	83. 1.59
84. Methylene Chloride	85. 00075-09-2	86.	87.	88. B	89. 0.087	90. 1	91. 6	92. .087	93. 0	94. 0.087	95. 0.087	96. 3.46	97. 2	98. 3.46
99. Xylene	100. 1330-20-7	101.	102.	103. B	104. 0.019	105. 1	106. 6	107. .019	108. 0	109. 0.019	110. 0.019	111. 7.41	112. 1	113. 7.41
114. Misc. VOCs	115. NY998-00-0	116.	117.	118. B	119. 0.262	120. 1	121. 6	122. .262	123. 0	124. 0.262	125. 0.262	126. 1.05	127. 3	128. 1.05
129.	130. - -	131.	132.	133.	134.	135.	136.	137.	138.	139.	140.	141.	142.	143.

SECTION G

SOLID FUEL TYPE	SOLID FUEL TONS / YR	% S	LIQUID FUEL TYPE	LIQUID FUEL THOUSANDS OF GALLONS/YR	% S	GAS TYPE	GAS THOUSANDS OF CF/YR	BTU/CF
144.	145.	146.	147.	148.	149.	150.	151.	152.

APPLICABLE RULE	APPLICABLE RULE
153. 212	154. 228

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

155. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Robert E. Macdonald | DATE: 9/23/98

AGENCY USE ONLY

156. LOCATION CODE	157. FACILITY ID. NO.	158. U.T.M. (E)	159. U.T.M. (N)	160. SIC NUMBER	161. DATE APPL. RECEIVED	162. DATE APPL. REVIEWED	163. REVIEWED BY:
					/ /	/ /	

PERMIT TO CONSTRUCT

164. DATE ISSUED	165. EXPIRATION DATE	166. SIGNATURE OF APPROVAL	167. FEE
/ /	/ /		

168.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

CERTIFICATE TO OPERATE

169. DATE ISSUED	170. EXPIRATION DATE	171. SIGNATURE OF APPROVAL	172. FEE
/ /	/ /		

173.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

174. SPECIAL CONDITIONS

1. | 2.
3. | 4.
5. | 6.
7. | 8.

Appendix E: Noise Backup Data

Casella CEL Ltd.

Report On CEL-63X

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	71.5 dB	Result
LASmax	92.3 dB	LAS 50%	58 dB	
LASmin	50.4 dB	LAS 90%	52.5 dB	
Start Date & Time	11/17/2021 8:13:55 AM	Calibration (Before) Date	11/17/2021 7:17:56 AM	
Duration	00:20:09 HH:MM:SS	Calibration (After) Date	11/17/2021 8:41:34 AM	
LAeq	68.3 dB	Calibration Drift	-0.1 dB	
End Date & Time	11/17/2021 8:34:04 AM	Battery Low	No	
Notes				

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	64 dB	Result
LASmax	89.9 dB	LAS 50%	57.5 dB	
LASmin	51.5 dB	LAS 90%	53.5 dB	
Start Date & Time	11/17/2021 5:14:45 PM	Calibration (Before) Date	11/17/2021 5:14:24 PM	
Duration	00:20:04 HH:MM:SS	Calibration (After) Date	11/17/2021 5:35:27 PM	
LAeq	64 dB	Calibration Drift	0.0 dB	
End Date & Time	11/17/2021 5:34:49 PM	Battery Low	No	
Notes				

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	65 dB	Result
LASmax	86.3 dB	LAS 50%	59 dB	
LASmin	51.6 dB	LAS 90%	54.5 dB	
Start Date & Time	11/17/2021 12:43:38 PM	Calibration (Before) Date	11/17/2021 12:42:12 PM	
Duration	00:20:07 HH:MM:SS	Calibration (After) Date	11/17/2021 1:34:38 PM	
LAeq	62.9 dB	Calibration Drift	-0.1 dB	
End Date & Time	11/17/2021 1:03:45 PM	Battery Low	No	
Notes				

Casella CEL Ltd.

Report On CEL-63X

Instrument Model	**CEL-633C**				
Serial Number	1488256	LAS	10%	69.5 dB	Result
LASmax	85.7 dB	LAS	50%	63 dB	
LASmin	54.2 dB	LAS	90%	58.5 dB	
Start Date & Time	11/17/2021 12:21:42 PM	Calibration (Before) Date		11/17/2021 12:20:35 PM	
Duration	00:20:08 HH:MM:SS	Calibration (After) Date		11/17/2021 12:42:12 PM	
LAeq	66.5 dB	Calibration Drift		-0.1 dB	
End Date & Time	11/17/2021 12:41:50 PM	Battery Low		No	
Notes					

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	72 dB	Result
LASmax	91.3 dB	LAS 50%	64.5 dB	
LASmin	54.1 dB	LAS 90%	58.5 dB	
Start Date & Time	11/17/2021 7:52:00 AM	Calibration (Before) Date	11/17/2021 7:17:56 AM	
Duration	00:20:03 HH:MM:SS	Calibration (After) Date	11/17/2021 8:41:34 AM	
LAeq	69.8 dB	Calibration Drift	-0.1 dB	
End Date & Time	11/17/2021 8:12:03 AM	Battery Low	No	
Notes				

Instrument Model	CEL-633C			
Serial Number	1488256	LAS 10%	69 dB	Result
LASmax	85.7 dB	LAS 50%	62 dB	
LASmin	53.2 dB	LAS 90%	58 dB	
Start Date & Time	11/17/2021 4:52:07 PM	Calibration (Before) Date	11/17/2021 4:51:56 PM	
Duration	00:20:04 HH:MM:SS	Calibration (After) Date	11/17/2021 5:14:24 PM	
LAeq	66.3 dB	Calibration Drift	0.0 dB	
End Date & Time	11/17/2021 5:12:11 PM	Battery Low	No	
Notes				

Casella CEL Ltd.

Report On CEL-63X

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	66 dB	Result
LASmax	76.5 dB	LAS 50%	58 dB	
LASmin	51.9 dB	LAS 90%	54 dB	
Start Date & Time	11/17/2021 12:00:08 PM	Calibration (Before) Date	11/17/2021 11:52:37 AM	
Duration	00:20:15 HH:MM:SS	Calibration (After) Date	11/17/2021 12:20:35 PM	
LAeq	62.5 dB	Calibration Drift	0.3 dB	
End Date & Time	11/17/2021 12:20:23 PM	Battery Low	No	
Notes				

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	65.5 dB	Result
LASmax	82.4 dB	LAS 50%	57.5 dB	
LASmin	49.8 dB	LAS 90%	52.5 dB	
Start Date & Time	11/17/2021 7:30:14 AM	Calibration (Before) Date	11/17/2021 7:17:56 AM	
Duration	00:20:09 HH:MM:SS	Calibration (After) Date	11/17/2021 8:41:34 AM	
LAeq	63.5 dB	Calibration Drift	-0.1 dB	
End Date & Time	11/17/2021 7:50:23 AM	Battery Low	No	
Notes				

Instrument Model	**CEL-633C**			
Serial Number	1488256	LAS 10%	66.5 dB	Result
LASmax	95.5 dB	LAS 50%	59.5 dB	
LASmin	52.3 dB	LAS 90%	55 dB	
Start Date & Time	11/17/2021 4:30:32 PM	Calibration (Before) Date	11/17/2021 4:27:10 PM	
Duration	00:20:03 HH:MM:SS	Calibration (After) Date	11/17/2021 4:51:56 PM	
LAeq	69.2 dB	Calibration Drift	0.0 dB	
End Date & Time	11/17/2021 4:50:35 PM	Battery Low	No	
Notes				

equity environmental engineering

WORKING TOGETHER TO DESIGN SOLUTIONS

Bill To
2020055

Noise Job Field Sheet

Name of Project: 703 Myrtle - 2020060

Project Address: 703 Myrtle Avenue Brooklyn, NY

Date(s) of Field Work: 11/17/2021

Personnel: John Vrabel, Josh Koh

Project Specific Scope of Work:

3 x 20-minute locations AM, Midday, PM

I. Start of Noise Monitoring Day

Departure Time: _____ Arrival Time: 7:15am

Weather Conditions (temp, wind speed, precipitation): Clear, 45°

Meter Type: Casella Meter Serial #: 1488256 Meter Location: 3
Meter Type: " " Meter Serial #: " " Meter Location: 2
Meter Type: " " Meter Serial #: " " Meter Location: 1
*If more locations are needed for a project use a second Field Sheet

Calibrator Serial #: 2045304 Meters used on: 1488256
Calibrator Serial #: " " Meters used on: " "
Calibrator Serial #: " " Meters used on: " "
Were Photos Taken of Each Location? (Y) / N *Discuss specific photo instructions w/ Project Manager

**On a separate sheet of paper (field book) make a sketch of the noise meter locations and the distances to nearest wall, fence, building, or other solid surfaces.*

II. Morning Session 7:30 AM – 9:00 AM

Before Measurement:

Meter Serial #: 1488256 Time: 7:29 Calibration Passed at 114 dB? (Y) / N
Meter Serial #: " " Time: 7:50 Calibration Passed at 114 dB? (Y) / N
Meter Serial #: " " Time: 8:12 Calibration Passed at 114 dB? (Y) / N

After Measurement:

Meter Serial #: 1488256 Time: 7:50 Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 8:13 Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 8:30 Calibration Passed at 114 dB? Y / N

*If more locations are needed for a project use a second Field Sheet

Location #	Start Time	End Time
3	7:30	7:50
2	7:51	8:12
1	8:14	8:34

*If more locations are needed for a project use a second Field Sheet

Location #	Car	SUV	Medium Truck	Heavy Truck	Bus	Train
3	17	26	5	1	1	0
2	55	53	24	4	20	0
1	8	11	4	0	0	0

*If more locations are needed for a project use a second Field Sheet

Noise Source: please note any loud noises here and time (sirens, garbage truck, etc):

Please place noise meters in their respective cases between sessions to avoid damage.

III. Midday Session 12:00 PM – 1:30 PM

Before Measurement:

Meter Serial #: 1488256 Time: Noon Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 12:21 Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 12:42 Calibration Passed at 114 dB? Y / N

After Measurement:

Meter Serial #: 1488256 Time: 12:20 Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 12:41 Calibration Passed at 114 dB? Y / N
Meter Serial #: " " Time: 1:05 Calibration Passed at 114 dB? Y / N
*If more locations are needed for a project use a second Field Sheet

Location #	Start Time	End Time
3	Noon	12:20
2	12:21	12:42
1	12:43	1:03

*If more locations are needed for a project use a second Field Sheet

Location #	Car	SUV	Medium Truck	Heavy Truck	Bus	Train
3	8	22	3	0	1	0
2	70	65	22	3	4	0
1	13	16	4	0	1	0

*If more locations are needed for a project use a second Field Sheet

Noise Source: please note any loud noises here and time (sirens, garbage truck, etc):

Please place noise meters in their respective cases between sessions to avoid damage.

IV. Evening Session 4:30 PM – 6:00 PM

Before Measurement:

Meter Serial #: " " Time: 425 Calibration Passed at 114 dB? Y / N
Meter Serial #: _____ Time: 452 Calibration Passed at 114 dB? Y / N
Meter Serial #: _____ Time: 513 Calibration Passed at 114 dB? Y / N

After Measurement:

Meter Serial #: " " Time: 450. Calibration Passed at 114 dB? Y / N
Meter Serial #: _____ Time: 513 Calibration Passed at 114 dB? Y / N
Meter Serial #: _____ Time: 540 Calibration Passed at 114 dB? Y / N
*If more locations are needed for a project use a second Field Sheet

Location #	Start Time	End Time
3	430	450
2	452	512
1	514	

*If more locations are needed for a project use a second Field Sheet

Location #	Car	SUV	Medium Truck	Heavy Truck	Bus	Train
3	12	16	2	0	1	0
2	80	49	17	8	14	0
1	20	18	4		0	0

*If more locations are needed for a project use a second Field Sheet

Noise Source: please note any loud noises here and time (sirens, garbage truck, etc):

Loc 3: siren @ 15:30

Please place noise meters in their respective cases between sessions to avoid damage.

V. End of Noise Monitoring Day

- Please return all noise meters to their cases.
- Do not return dead batteries to the cases, throw them out.
- Did you take photos? Y / N
- Did you complete the site sketch? Y / N
- If a meter(s) was rented, please scan in calibration documents.

Anything of note/concern for the day: _____

_____

_____

Departure Time: _____ Arrival Time: _____

Total Time to Be Billed: _____



Legend

- Projected Development Site 1
- Projected Development Site 2
- Rezoning Area
- Noise Monitoring Locations

0 25 50 100 150 US Feet

N

Appendix F: DCP Housing Database Back-Up

Completed Construction Permits since January 1, 2020

Job_Number	Job_Type	AddressNum	AddressSt	Additional DU	DateFiled	DatePermit	DateLstUpd	DateComplt	ZoningDst1	ZoningDst2	SpecIDst1	FloorsInit	FloorsProp	Enlargemnt	Ownership	BCT2010	NTA2010	1/2-mile
320458768	New Building	1044	BEDFORD AVENUE	24	4/6/2012	12/3/2015	10/7/2019	6/10/2020	R7A			0	7		Private For-Profit: Individual	3023300	BK75	Y
320904839	Alteration	271	SKILLMAN STREET	1	10/3/2013	9/7/2018	10/2/2020	10/2/2020	R6B			3	4	Horizontal and Vertical	Private For-Profit: Individual	3023300	BK75	Y
320909237	New Building	253	NOSTRAND AVENUE	10	9/3/2015	12/29/2015	1/17/2020	1/17/2020	R6			0	6		Private For-Profit: Partnership	3025300	BK75	Y
320909978	New Building	200	CLIFTON PLACE	8	10/9/2015	8/24/2016	2/14/2020	2/10/2020	R6B			0	4		Private For-Profit: Individual	3023300	BK75	Y
320913838	New Building	327	CLIFTON PLACE	2	10/17/2014	9/30/2016	1/4/2020	1/4/2020	R6B			0	3		Government, City: Corporation	3025100	BK75	Y
320914070	New Building	744	BEDFORD AVENUE	88	6/16/2014	6/5/2015	2/10/2020	3/5/2020	M1-2/R6A		MX-4	0	6		Private For-Profit: Partnership	3123700	BK75	Y
321042509	New Building	92	STOCKTON STREET	39	12/8/2014	6/8/2015	7/1/2020	12/10/2020	R6A	R7D		0	9		Private For-Profit: Individual	3025700	BK75	Y
321042590	New Building	569	MARCY AVENUE	40	12/8/2014	6/8/2015	7/1/2020	12/2/2020	R6A	R7D		0	9		Private For-Profit: Individual	3025700	BK75	Y
321067901	New Building	436	LAFAYETTE AVENUE	8	12/22/2014	3/6/2017	8/11/2020	3/26/2020	R6A			0	4		Private For-Profit: Partnership	3023300	BK75	Y
321125153	New Building	218	WALWORTH STREET	2	5/7/2015	6/12/2015	11/17/2020	8/13/2020	R6B			0	4		Private For-Profit: Partnership	3024100	BK75	Y
321162022	Alteration	944	BEDFORD AVENUE	13	7/25/2014	1/11/2017	6/28/2019	12/31/2020	R7A			2	4		Private Non-Profit: Corporation	3023500	BK69	Y
321178319	New Building	263	FRANKLIN AVENUE	18	1/19/2016	7/19/2019	7/28/2020	4/23/2020	R7A			0	6		Private For-Profit: Corporation	3023300	BK75	Y
321191768	Alteration	547	LAFAYETTE AVENUE	2	11/6/2017	5/16/2018	3/5/2019	1/4/2020	R6B			4	4	Horizontal and Vertical	Private For-Profit: Partnership	3024100	BK75	Y
321192801	New Building	610	MYRTLE AVENUE	20	8/8/2016	2/2/2018	2/24/2020	2/24/2020	R7A			0	8		Private For-Profit: Corporation	3023500	BK69	Y
321240224	New Building	221	FRANKLIN AVENUE	2	3/28/2016	2/12/2018	2/3/2020	2/3/2020	R6B			0	4		Private For-Profit: Partnership	3023500	BK69	Y
321291197	New Building	149	SKILLMAN STREET	2	12/21/2015	10/24/2018	1/15/2020	1/15/2020	R6B			0	3		Private For-Profit: Partnership	3023500	BK69	Y
321292230	New Building	548	LAFAYETTE AVENUE	8	4/5/2016	8/14/2017	1/29/2020	1/16/2020	R6B			0	4		Private For-Profit: Corporation	3024300	BK75	Y
321318944	Alteration	577	LAFAYETTE AVENUE	1	3/7/2016	9/9/2016	1/28/2020	1/28/2020	R6A			3	4	Horizontal and Vertical	Private For-Profit: Corporation	3025300	BK75	Y
321362565	New Building	814	BEDFORD AVENUE	17	4/4/2016	5/26/2017	12/9/2020	12/9/2020	M1-2	R6A	MX-4	0	5		Private For-Profit: Individual	3123700	BK75	Y
321415866	New Building	275	SKILLMAN STREET	5	7/8/2016	3/30/2017	4/28/2020	4/28/2020	R6			0	4		Private For-Profit: Individual	3023300	BK75	Y
321487556	Alteration	183	SKILLMAN STREET	0	3/29/2017	2/20/2018	1/14/2019	1/4/2020	R6B			2	3		Private For-Profit: Individual	3023500	BK69	Y
321495397	New Building	95	LYNCH STREET	3	5/5/2017	10/10/2018	10/2/2020	10/2/2020	R6			0	4		Private For-Profit: Partnership	3053100	BK75	Y
321554331	New Building	801	BEDFORD AVENUE	18	4/6/2017	8/22/2017	7/7/2020	9/16/2020	M1-2/R6A		MX-4	0	6		Private For-Profit: Corporation	3123700	BK75	Y
321560155	Alteration	125	CLIFTON PLACE	3	5/5/2017	6/13/2018	8/5/2020	8/3/2020	R6B			3	4	Horizontal and Vertical	Private For-Profit: Individual	3023300	BK75	Y
321619673	Alteration	33	PULASKI STREET	1	7/11/2017	5/22/2018	12/11/2020	12/11/2020	R6B			4	4		Private For-Profit: Individual	3025300	BK75	Y
321651039	Alteration	645	BEDFORD AVENUE	0	9/13/2017	11/28/2018	7/1/2020	7/1/2020	R6			4	4	Horizontal and Vertical	Private For-Profit: Individual	3053300	BK72	Y
321698515	Alteration	172	VERNON AVENUE	-1	1/23/2018	5/11/2018	11/20/2019	3/27/2020	R6B			4	4		Private For-Profit: Corporation	3025901	BK75	Y
321701164	Alteration	340	CLIFTON PLACE	-4	12/21/2017	5/9/2018	7/30/2020	7/9/2020	R6B			4	4		Private For-Profit: Corporation	3025100	BK75	Y
321718539	Alteration	29	PULASKI STREET	-1	6/1/2018	9/4/2018	1/6/2020	1/6/2020	R6B			3	3		Private For-Profit: Individual	3025300	BK75	Y
321730695	Alteration	226	SPENCER STREET	-1	3/29/2018	3/14/2019	12/4/2020	12/4/2020	R6B			3	4	Horizontal and Vertical	Private For-Profit: Individual	3024100	BK75	Y
321739776	Alteration	492	MARCY AVENUE	0	4/9/2018	10/1/2018	2/7/2020	11/2/2020	R6			6	6		Government, City: NYCHA/HHC	3025500	BK75	Y
321748132	New Building	104	MARTIN LUTHER KIN	10	6/12/2018	12/17/2018	12/1/2020	12/1/2020	R6A			0	5		Private For-Profit: Partnership	3025700	BK75	Y
321774567	Alteration	154	CLIFTON PLACE	0	6/13/2018	11/5/2018	11/5/2018	8/21/2020	R6B			3	4	Horizontal and Vertical	Private For-Profit: Corporation	3023300	BK75	Y
321792716	Demolition	208	NOSTRAND AVENUE	-2	6/29/2018	3/11/2020	9/4/2020	3/11/2020	R6A			4	0		Private For-Profit: Corporation	3024100	BK75	Y
321826280	New Building	85	RUTLEDGE STREET	10	8/20/2018	2/13/2019	3/23/2020	3/23/2020	R6			0	5		Private For-Profit: Corporation	3053700	BK72	Y
321836037	New Building	115	CLIFTON PLACE	9	9/18/2018	7/25/2019	7/14/2020	7/14/2020	R6B			0	4		Private For-Profit: Partnership	3023300	BK75	Y
321836046	New Building	119	CLIFTON PLACE	8	9/18/2018	7/25/2019	8/3/2020	8/3/2020	R6B			0	4		Private For-Profit: Partnership	3023300	BK75	Y
321836082	New Building	123	CLIFTON PLACE	8	9/18/2018	7/25/2019	7/2/2020	7/2/2020	R6B			0	4		Private For-Profit: Partnership	3023300	BK75	Y
322029201	Demolition	727	DEKALB AVENUE	-3	1/15/2020	7/6/2020	10/14/2020	7/6/2020	R6			3	0		Private For-Profit: Individual	3026100	BK75	Y
322072136	Demolition	952	BEDFORD AVENUE	-3	3/4/2020	9/18/2020	11/5/2020	9/18/2020	R7A			3	0		Private For-Profit: Corporation	3023500	BK69	Y
				365	Total DU													
				934	Total Residents													
				70979	**Existing Population**													

Major Active Construction Permits

borough	job_type	permit_typ	job_number	bin_number	job_type2	cost_estim	enlargemen	square_foo	permit_iss	permit_exp	job_locati	job_loca_1	proposed_o	proposed_s	proposed_d	400-ft	1/4-Mile	1/2-Mile
Brooklyn	A1	ALT 1 Enlargement	321386246	3055814	A1	1225400	true	2637	7/10/2020	4/1/2021	214	CLIFTON PLACE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	3	1			Y
Brooklyn	A1	ALT 1 Enlargement	321384211	3050119	A1	1106540	true	2548	4/3/2020	3/26/2021	495	GREENE AVE	RESIDENTIAL: APARTMENT HOUSES	4	6			Y
Brooklyn	NB	New Building	321385032	3414286	NB	2296960	false	15520	3/17/2020	3/17/2021	1021	BEDFORD AVENUE	RESIDENTIAL: APARTMENT HOUSES	6	15			Y
Brooklyn	A1	ALT 1 Enlargement	321928296	3055676	A1	479550	true	737	6/15/2020	6/17/2021	470	LAFAYETTE AVE	FACTORY/INDUSTRIAL: LOW HAZARD	2	1			Y
Brooklyn	A1	ALT 1 Enlargement	321273965	3049891	A1	184300	true	1195	7/1/2020	7/2/2021	574	LAFAYETTE AVENUE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	2			Y
Brooklyn	A1	ALT 1 Enlargement	321793902	3055384	A1	1000000	true	1480	3/17/2020	3/12/2021	287	FRANKLIN AVE	RESIDENTIAL: APARTMENT HOUSES	4	3			Y
Brooklyn	A1	ALT 1 Enlargement	321572981	3055397	A1	586327	true	1920	4/2/2020	1/28/2021	256	SKILLMAN STREET	RESIDENTIAL: APARTMENT HOUSES	3	3			Y
Brooklyn	A1	ALT 1 Enlargement	321463055	3322127	A1	412041	true	0	4/10/2020	3/2/2021	243	NOSTRAND AVE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	2	2			Y
Brooklyn	NB	New Building	321368300	3055154	NB	1603728	false	10836	7/6/2020	7/7/2021	978	KENT AVENUE	RESIDENTIAL: APARTMENT HOUSES	6	12			Y
Brooklyn	A1	ALT 1 Enlargement	322022609	3049615	A1	628597	true	660	9/30/2020	7/22/2021	554	DEKALB AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	9			Y
Brooklyn	NB	New Building	321584825	3055183	NB	2396564	false	16193	3/11/2020	3/11/2021	245	FRANKLIN AVENUE	RESIDENTIAL: APARTMENT HOUSES	6	16			Y
Brooklyn	A1	ALT 1 Enlargement	321528183	3055260	A1	416460	true	4594	10/27/2020	6/26/2021	986	BEDFORD AVE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	5	2		Y	Y
Brooklyn	NB	New Building	321554545	3427006	NB	3119396	false	21077	11/10/2020	9/18/2021	223	SPENCER STREET	BUSINESS	7	0		Y	Y
Brooklyn	A1	ALT 1 Enlargement	322022663	3048941	A1	1000000	true	2542	12/11/2020	6/17/2021	945	BEDFORD AVENUE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	2		Y	Y
Brooklyn	NB	New Building	320916835	3049469	NB	1112220	false	7515	11/6/2020	10/23/2021	641	DEKALB AVENUE	RESIDENTIAL: APARTMENT HOUSES	5	5			Y
Brooklyn	A1	ALT 1 Enlargement	321311317	3049520	A1	285000	true	0	8/31/2020	7/21/2021	697	DEKALB AVE	RESIDENTIAL: APARTMENT HOUSES	4	8			Y
Brooklyn	NB	New Building	321729670	3049512	NB	1143744	false	7728	1/22/2021	12/11/2021	727	DEKALB AVE	RESIDENTIAL: APARTMENT HOUSES	4	10			Y
Brooklyn	NB	New Building	321820464	3426205	NB	1546008	false	10446	3/9/2020	3/9/2021	288	WILLOUGHBY AVENUE	RESIDENTIAL: APARTMENT HOUSES	6	12			Y
Brooklyn	A1	ALT 1 Enlargement	321162022	3055241	A1	2407000	true	8712	9/29/2020	9/30/2021	944	BEDFORD AVENUE	INSTITUTION: ASSISTED LIVING	4	1		Y	Y
Brooklyn	NB	New Building	321317758	3425966	NB	3570796	false	24127	10/27/2020	6/26/2021	344	WILLOUGHBY AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	5		Y	Y
Brooklyn	NB	New Building	321183367	3329825	NB	11235716	false	75917	9/28/2020	10/1/2021	135	EMERSON PLACE	RESIDENTIAL: HOTELS, DORMITORIES	10	1			Y
Brooklyn	A1	ALT 1 Enlargement	321966841	3054902	A1	219000	true	510	11/18/2020	4/28/2021	576	MYRTLE AVENUE	MERCANTILE	3	2			Y
Brooklyn	NB	New Building	320416867	3048591	NB	10519100	false	71075	11/13/2020	11/13/2021	184	NOSTRAND AVENUE	EDUCATIONAL	4	0		Y	Y
Brooklyn	A1	ALT 1 Enlargement	321596233	3054913	A1	770990	true	2394	12/28/2020	12/30/2021	598	MYRTLE AVENUE	RESIDENTIAL: APARTMENT HOUSES	5	8			Y
Brooklyn	A1	ALT 1 Enlargement	321596313	3054914	A1	941079	true	2920	12/28/2020	12/30/2021	600	MYRTLE AVENUE	RESIDENTIAL: APARTMENT HOUSES	5	8			Y
Brooklyn	NB	New Building	321257714	3054935	NB	1552224	false	10488	11/10/2020	5/26/2021	622	MYRTLE AVENUE	EDUCATIONAL	6	6		Y	Y
Brooklyn	A1	ALT 1 Enlargement	321589465	3048751	A1	670000	true	1260	9/8/2020	9/8/2021	30	VERNON AVE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	2		Y	Y
Brooklyn	NB	New Building	321359766	3426256	NB	2647424	false	17888	11/10/2020	9/2/2021	597	MARCY AVE	RESIDENTIAL: APARTMENT HOUSES	6	20			Y
Brooklyn	A1	ALT 1 Enlargement	321471233	3054750	A1	1411200	true	0	8/5/2020	2/1/2021	653	MYRTLE AVE	RESIDENTIAL: APARTMENT HOUSES	5	5		Y	Y
Brooklyn	A1	ALT 1 Enlargement	340769591	3054664	A1	527000	true	1100	12/16/2020	12/16/2021	131	TAAFFE PLACE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	3	1			Y
Brooklyn	A1	ALT 1 Enlargement	321481810	3324219	A1	1500000	true	0	11/9/2020	6/28/2021	586	MARCY AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	10			Y
Brooklyn	NB	New Building	321833398	3426282	NB	1104524	false	7463	12/2/2020	11/19/2021	129	TAAFFE PLACE	RESIDENTIAL: APARTMENT HOUSES	4	8			Y
Brooklyn	NB	New Building	321291188	3048421	NB	1183852	false	7999	10/8/2020	6/5/2021	687	MYRTLE AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	5	Y	Y	Y
Brooklyn	NB	New Building	321659282	3819997	NB	1178968	false	7966	7/8/2020	7/12/2021	853	KENT AVENUE	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	2		Y	Y
Brooklyn	A1	ALT 1 Enlargement	321456722	3054626	A1	4281906	true	3472	10/16/2020	4/19/2021	148	CLASSON AVENUE	STORAGE: LOW HAZARD	1	0			Y
Brooklyn	NB	New Building	321042590	3421430	NB	11782724	false	79613	7/1/2020	7/1/2021	569	MARCY AVENUE	RESIDENTIAL: APARTMENT HOUSES	9	40			Y
Brooklyn	NB	New Building	321042527	3426036	NB	21062620	false	142315	8/13/2020	5/22/2021	859	MYRTLE AVE	RESIDENTIAL: APARTMENT HOUSES	10	58			Y
Brooklyn	NB	New Building	321042616	3426037	NB	12036692	false	81329	7/1/2020	5/22/2021	869	MYRTLE AVE	RESIDENTIAL: APARTMENT HOUSES	8	59			Y
Brooklyn	NB	New Building	321042509	3426034	NB	14029068	false	94791	7/1/2020	5/22/2021	92	STOCKTON ST.	RESIDENTIAL: APARTMENT HOUSES	9	39			Y
Brooklyn	NB	New Building	321486860	3425883	NB	2396860	false	16195	11/5/2020	2/2/2021	91	FRANKLIN AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	8	Y	Y	Y
Brooklyn	NB	New Building	321516640	3426411	NB	6767744	false	45728	12/8/2020	5/26/2021	31	SPENCER STREET	BUSINESS	15	0		Y	Y
Brooklyn	NB	New Building	321383784	3054203	NB	17155124	false	115913	10/30/2020	10/30/2021	376	FLUSHING AVENUE	RESIDENTIAL: APARTMENT HOUSES	9	86			Y
Brooklyn	NB	New Building	321383775	3054204	NB	28235144	false	190778	11/30/2020	11/30/2021	378	FLUSHING AVENUE	RESIDENTIAL: APARTMENT HOUSES	7	75			Y
Brooklyn	NB	New Building	321453609	3428557	NB	33467980	false	226135	4/27/2020	4/27/2021	347	FLUSHING AV	MERCANTILE	7	0			Y
Brooklyn	A1	ALT 1 Enlargement	321213753	3388747	A1	918000	true	21860	1/20/2021	1/20/2022	24	RUTLEDGE ST	RESIDENTIAL: APARTMENT HOUSES	5	8			Y
Brooklyn	A1	ALT 1 Enlargement	321603582	3259394	A1	669672	true	1937	10/26/2020	4/24/2021	22	RUTLEDGE STREET	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	3			Y
Brooklyn	NB	New Building	321276445	3428663	NB	10789200	false	72900	8/11/2020	5/6/2021	427	MARCY AVENUE	RESIDENTIAL: APARTMENT HOUSES	7	24			Y
Brooklyn	A1	ALT 1 Enlargement	321656374	3061098	A1	704760	true	2289	3/5/2020	3/4/2021	70	HEYWARD ST	RESIDENTIAL: APARTMENT HOUSES	4	2			Y
Brooklyn	NB	New Building	321022166	3418206	NB	2264400	false	15300	1/18/2021	1/20/2022	74	HEYWARD ST	RESIDENTIAL: APARTMENT HOUSES	5	3			Y
Brooklyn	NB	New Building	321564918	3426570	NB	1577384	false	10658	9/29/2020	7/19/2021	217	LEE AVENUE	RESIDENTIAL: APARTMENT HOUSES	4	3			Y
Brooklyn	NB	New Building	320728593	3406777	NB	1066340	false	7205	10/27/2020	6/26/2021	96	SANFORD STREET	EDUCATIONAL	3	0	Y	Y	Y
Brooklyn	NB	New Building	321112620	3428874	NB	963036	false	6507	7/8/2020	7/12/2021	97	LYNCH STREET	RESIDENTIAL: 1 & 2 FAMILY HOUSES	4	2			Y