4

9-10-2013

2013 SEP 10 PM 1 40

OFFICE OF THE CITY CLERK
CAMBRIDGE, MASSACHUSETTS

TO:

Cambridge City Council

Attached you will find a copy of the notes on the Feast of Saint Cosmos & Damian with revision.

I have also included photographs of the feast covering the issues discussed.

Sincerely; Paul Tammaro

Paul Tammaro

4 Marion Street

Cambridge, MA 02141

OVERVIEW:

Noise level of generator used to power amusements at this year's annual Italian Feast of Saint Cosmos & Damian was extremely loud.

DUE TO: A. Placement of generator B. Size of generator C. Lack of dampening material

NOTES ON 2013 FEAST:

A. Police contacted by me on September 6, 2013 about generator noise.

B. Because of item A, Rockwell Amusements placed a tractor directly in back of open box truck that contained generator to defuse noise off of Cambridge Street. (1, 2 & 7)

C. Saturday September 7, 2013 light truck (Immedia) (*) shows up for feast. Parks truck between two Bus stop signs and turns on lights. Keep in mind buses are still in service.

D. Sunday September 8, 2013 accident corner of Cambridge Street & Cardinal Medeiras Avenue, two car fender bender. Called in accident to police.

E. 3:00 pm live music starts on Cambridge Street however, generator noise still present.

F. CRX train passes by at about 3:10 pm & returns in about a half hour. Assumed added decibel level to be 90 dBA. (1, 8)

G. 5:15 another accident: Vehicle hits handicap Scooter with rider. Police on site.

H. 5:30 pm Big Band shows up to play. At this point no longer can one hear the generator noise. Assume decibel level to be in the 85 to 111DBA range. (2, 8) Big Band stopped playing at 6:30 pm. Generator noise is now unmasked.

I. Conclusion of feast at 10:00 pm. Termination of generator noise about 1:00 am on Monday morning September 9, 2013, this was due to breakdown of amusements. (5)

CONCLUSIONS:

A. Generator ran about 23 to 25 hours between September 6th & September 9th, 2013 with a minimum run time during amusement operation of 9 hours. Maximum sustainable exposure rate 85 dBA is 8 hours. (1) I believe if tested with a sound level meter the dBA would be over 90 dBA.

   Recommend all future amusement permits be issued with a rated maximum decibel level, or a range the operator must meet. (5, 1, 2, 3, 8)

B. As to Immedia (*) lighting vehicle and lights, please consider relocating parking of vehicle away from bus stop. Downward facing lighting is the future not air port beacons.

REFERENCES:

1. http://dangerousdecibels.org/education/information-center/decibel-exposure-time

2. http://www.e-a-r.com/pdf/hearingcons/noise_nav.xls (check items 259 to 263)

REFERENCES CONTIUED:

3. http://www.e.a.r.com/hearingconservatiopn/faq_main.cfm
4. Wikipedia: A. Decibels B. A – Weighting
5. Cambridge Chronicle September 5th2013 / article: Hearing on state wide ban on excessive noise from 11:00 pm to 7:00 am above 50 dBA within 50 feet. Hearing at 10:00 am room A-2 November 12, 2013.
6. Rockwell Amusements P.O. Box 338 North Scituate RI 02857 / 401-934-1560 / truck with generator DOT# - USDOT316079 Johnston RI
7. Federal Motor Carrier Safety Regulation Pocketbook 2005 / J.J. Keller & Assoc.
8. www.gcaudio.com/resources/howtos/loudness.html

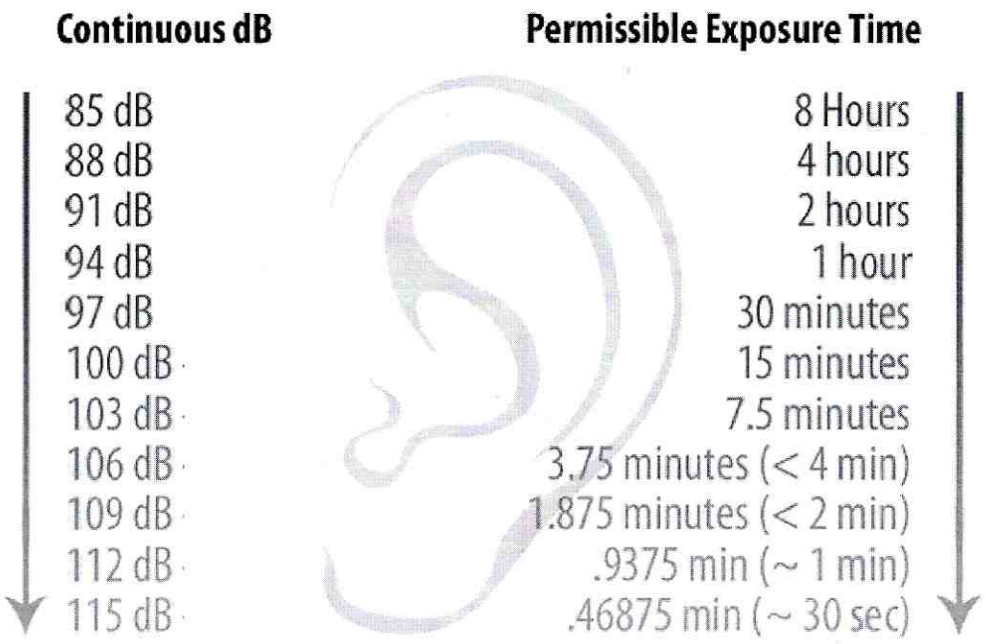
(*) revision 1 / typo / was inmedia

Decibel Exposure Time Guidelines

How loud is too loud?

Exposure Time Guidelines

Accepted standards for recommended permissible exposure time for continuous time weighted average noise, according to NIOSH and CDC, 2002. For every 3 dBAs over 85dBA, the permissible exposure time before possible damage can occur is cut in half.



The Noise Navigator®: a database of over 1700 noise sources.

Developed by Elliott Berger, MS, Senior Scientist with 3M Occupational Health and Environmental Safety Division.

- Noise Navigator Spreadsheet - http://www.e-a-r.com/pdf/hearingcons/Noise_Nav.xls – see the tabs at the bottom of the page to find sound levels for settings occupational, non-occupational, military, aircraft, etc.
- E.A.R. Hearing Conservation FAQs - http://www.e-a-r.com/hearingconservation/faq_main.cfm (Visit this link for a list of interesting articles and graphics.)

(See item 2 on this list of interesting articles and graphics.)

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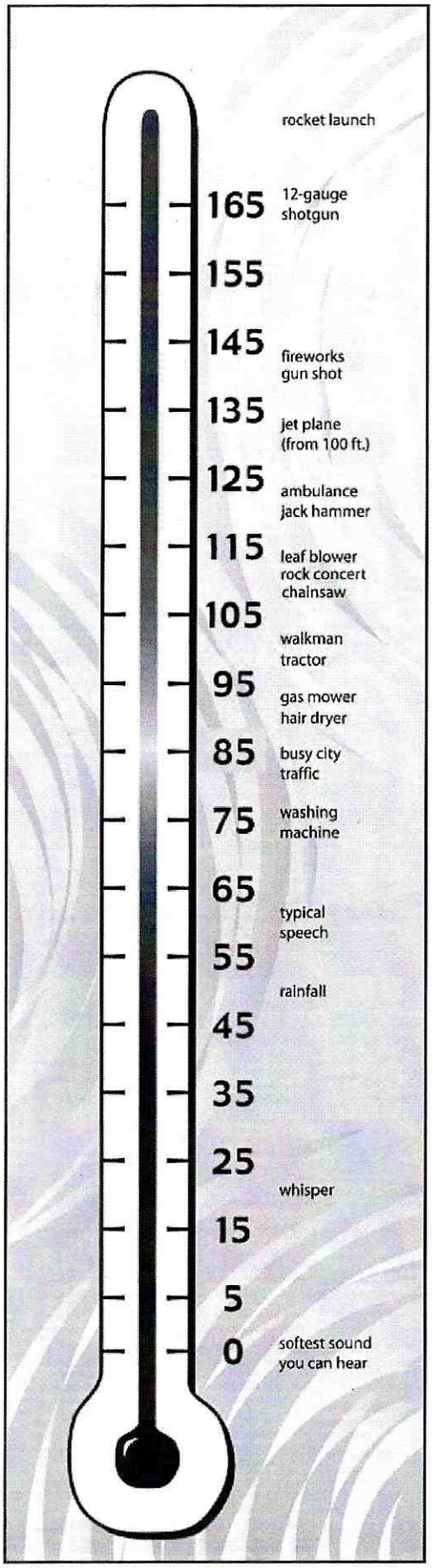
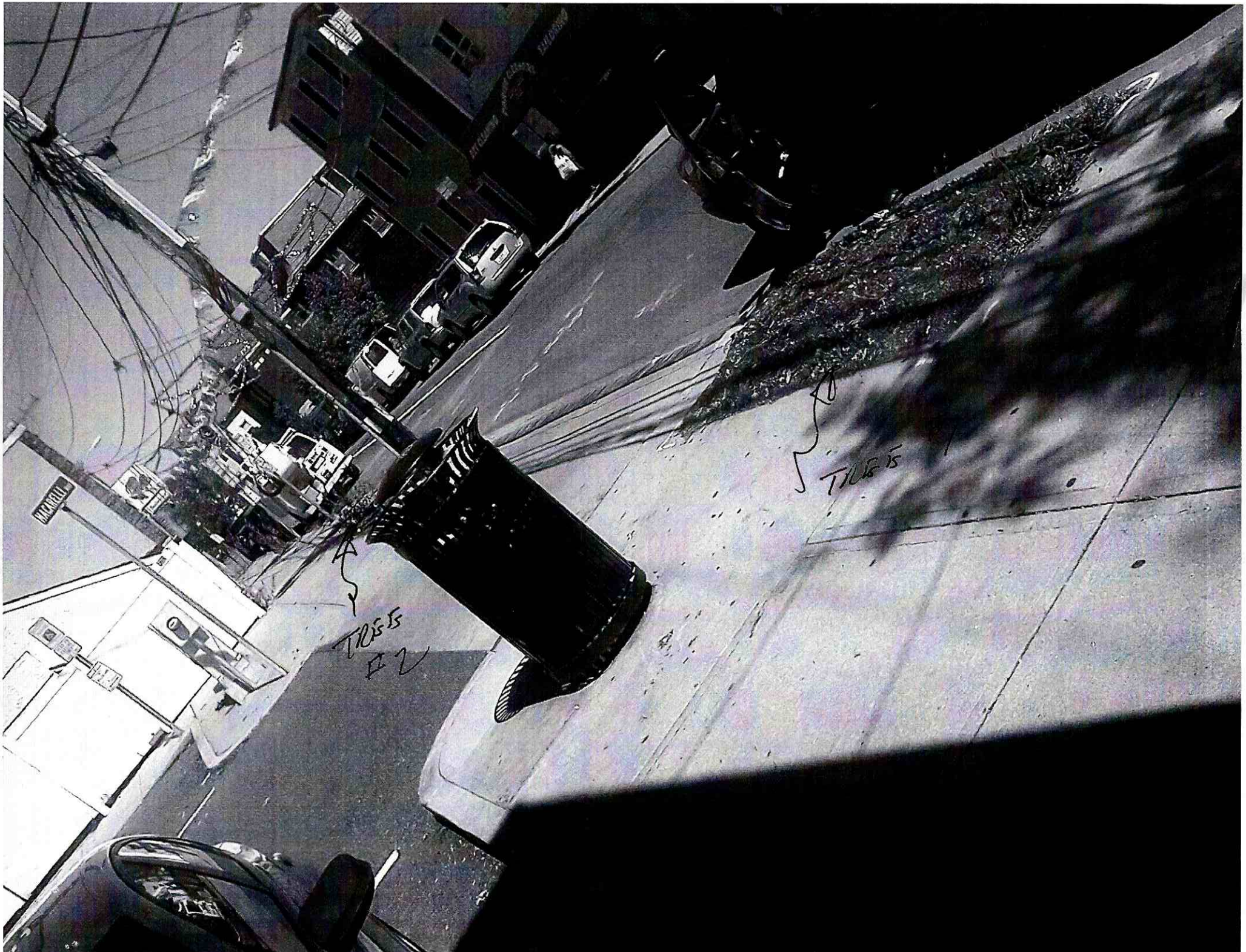
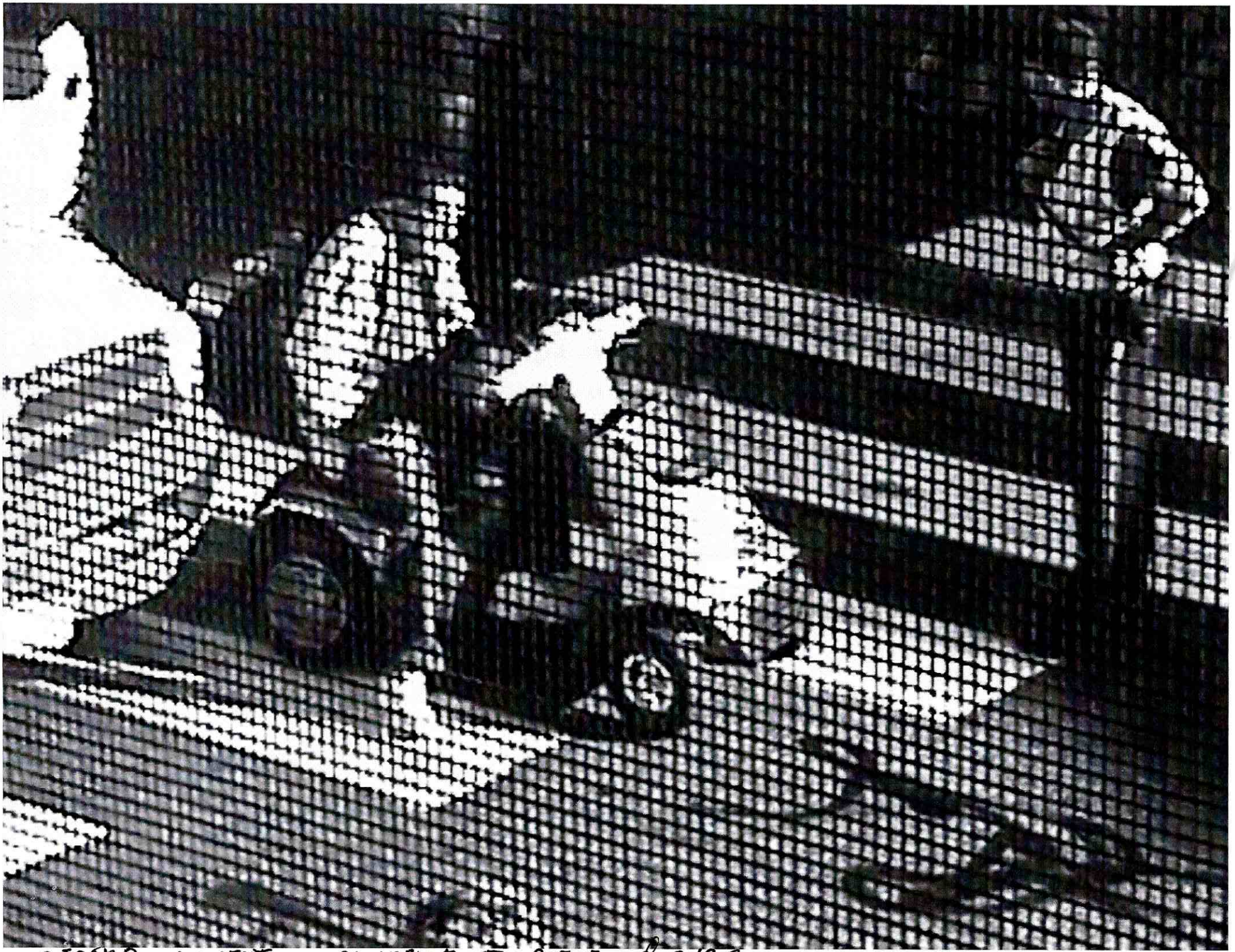

rocket launch
165
12-gauge shotgun
155
145
fireworks
gun shot
135
jet plane (from 100 ft.)
125
ambulance
jack hammer
115
leaf blower
rock concert
chainsaw
105
walkman
tractor
95
gas mower
hair dryer
85
busy city traffic
75
washing machine
65
typical speech
55
rainfall
45
35
25
whisper
15
5
0
softest sound you can hear



2 TREES CUT DOWN / ENTRANCE TO FEAST REF WARREN ST.

FIRST ACCIDENT ON CAMBRIDGE ST 9-8-13 @ 7:16AM



SECOND ACCIDENT IN CAMBRIDGE ST. 9-8-13 @ 5:19 PM

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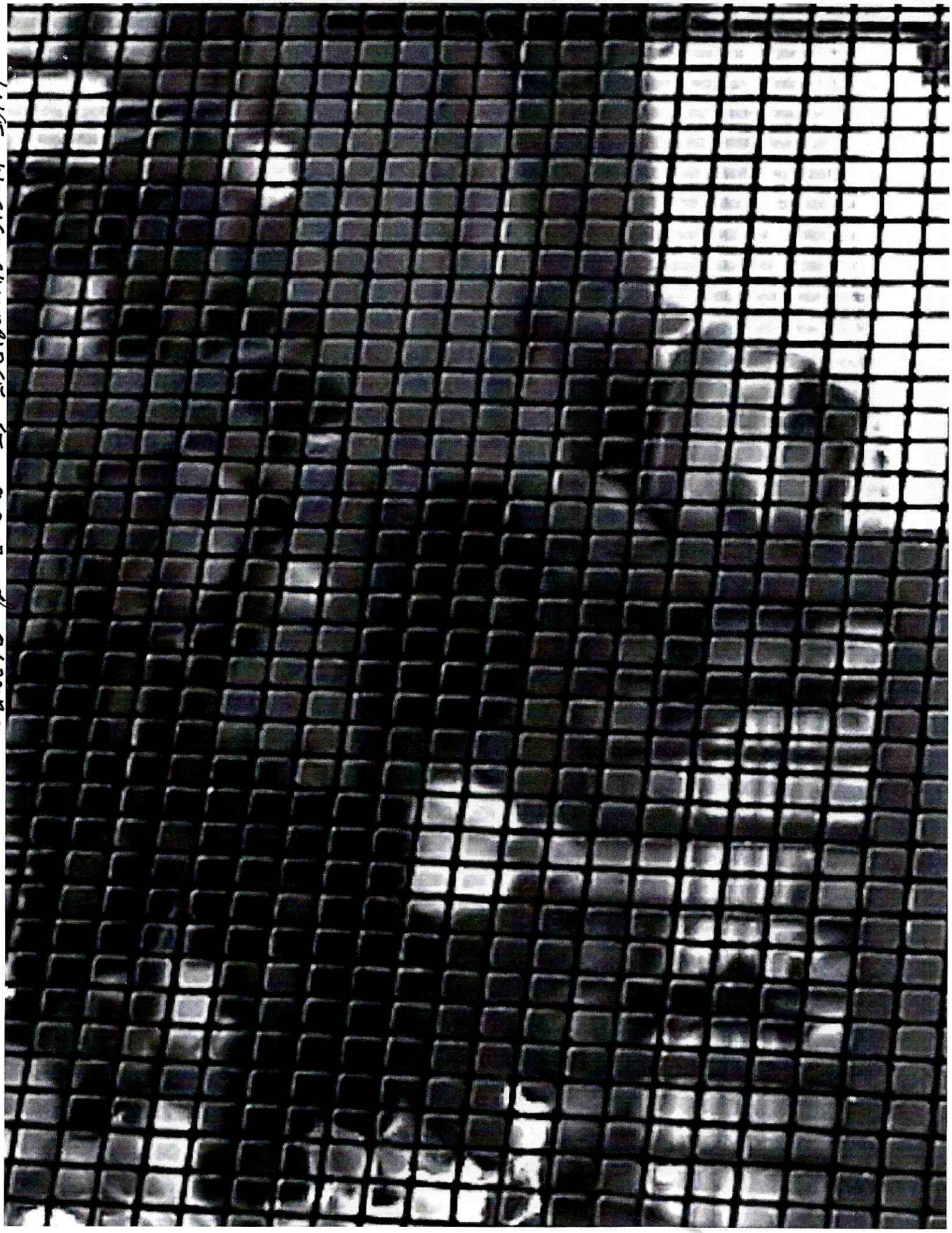
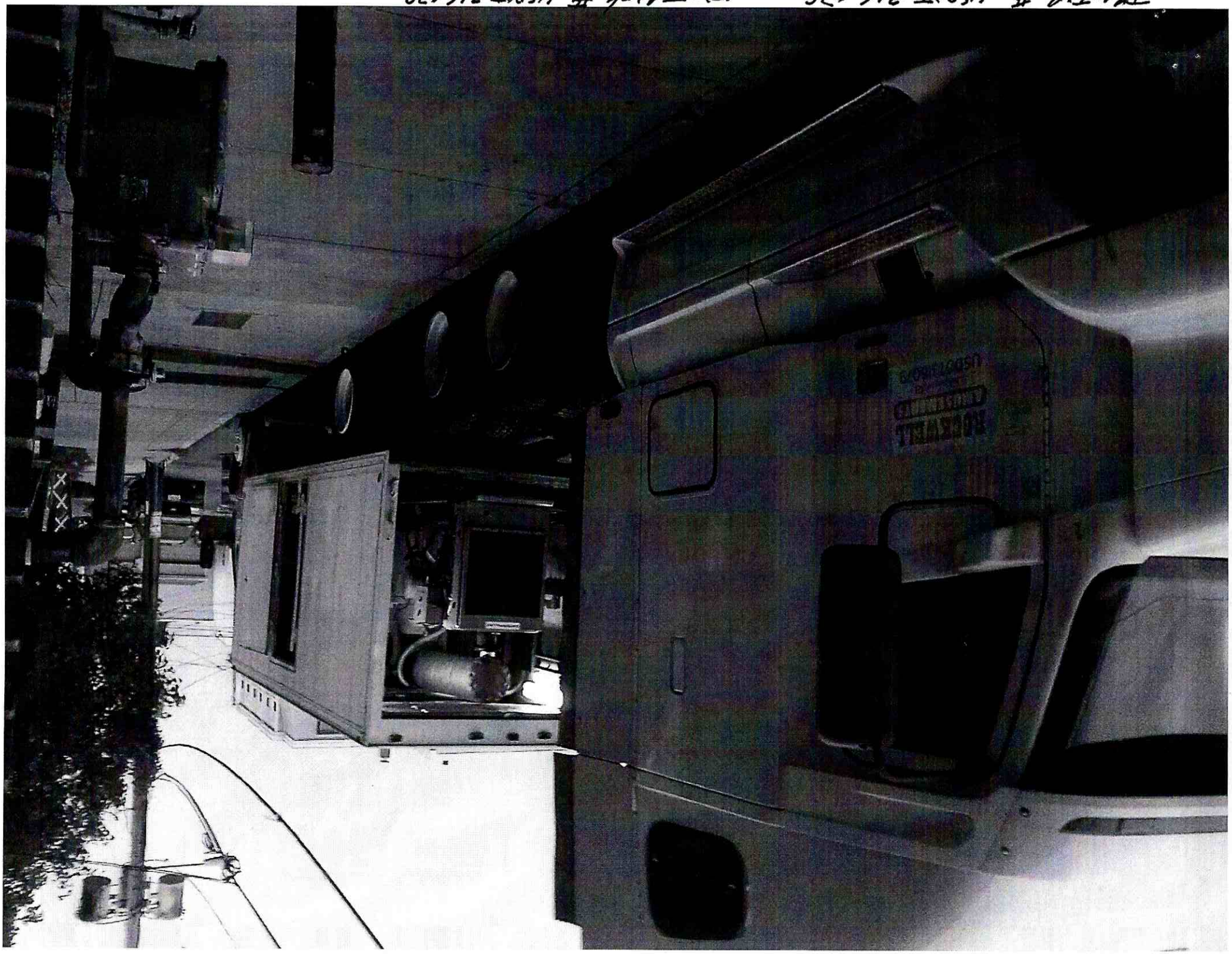
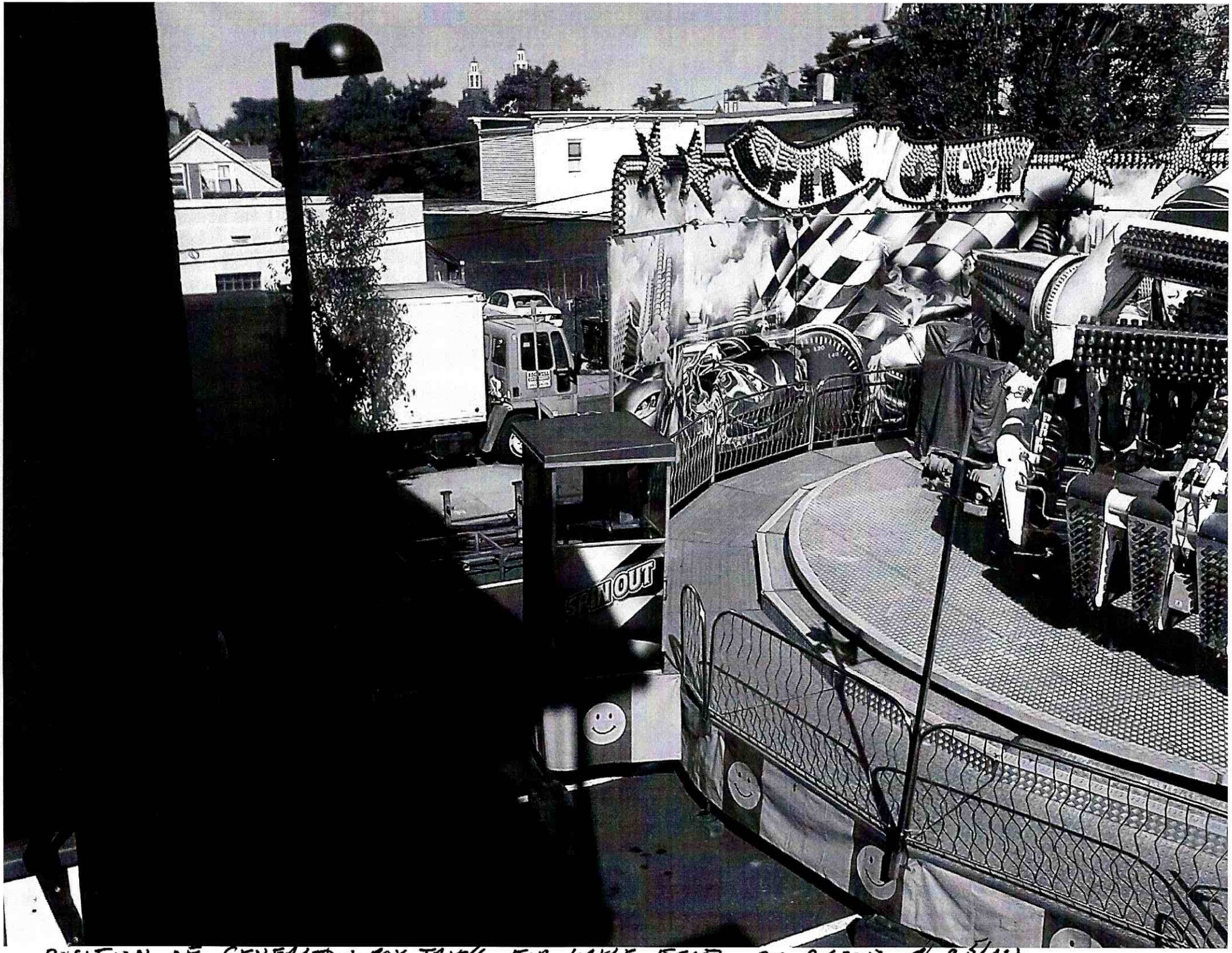
LIGHT TRUCK UNIFORM 9-7-13 @ 7:13PM



LIVE MUSIC CHARLOTTE ST 9-8-13 @ 3:24 PM





POSITION OF GENERATOR + BOX TRUCK FOR WHOLE FEAST PIC 9-6-2013 @ 9:51AM

8-5-13 @ 3:50 PM BACKFILLING GROUNDING ROD

H2O
ELECTRIC