



AECOM
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Chicago, Illinois 60606

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959076

July 21, 2020

Ms. Kareena Wasserman
Commonwealth Edison Co.
2 Lincoln Centre
Oakbrook Terrace, IL 60181

RE: Streeterville Thorium Monitoring Results
Permit No. DOT1256963
Permit Address: 621 N Rush St., Chicago, Illinois
AECOM Project No. 60493426

Dear Mr. Wasserman:

Pursuant to conditions specified in the ROW form (attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed for the above referenced project. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on July 8, 2020. The work entailed the removal of concrete and minor shallow fill excavation along on two sides of an existing ComEd vault.

Surveying was performed on the fill exposed beneath the concrete sidewalk (refer to annotated drawing) during an excavation work. The work consisted of the removal of the existing sidewalk adjacent to the vault on the south and west sides. Along N. Rush Street the excavation was approximately 2-ft wide and 19-ft long. The sidewalk excavation area south of the vault was 4-ft wide and 13-ft long. The deepest portion of the excavation was immediately adjacent to the walls of the vault, which was 1-1.5 feet deep. Surveying was conducted on the fill exposed during the excavation work. Refer to the attached annotated drawing for the dimensions and location of the excavation areas. Photographs of the two areas after the concrete was removed are also attached

The monitoring did not indicate that the exposed fill soil was above the removal action level established by the USEPA for the Streeterville area of Chicago. The USEPA removal action level for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were recorded using Ludlum Models 2221 survey meter and a shielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 6,620 (S/N: 172039) counts per minute (cpm) shielded. A field instrument background gamma count of 1,019 cpm was recorded at a nearby planter.

The field gamma measurements within the excavations did not exceed the instruments threshold previously stated and ranged from a minimum of 1,507 cpm to a maximum of 2,053 cpm shielded. Based on field observations there was no indication of the presence of radiologically contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. An annotated drawing and a table with the survey readings has been included in the attachments.

As part of the permit conditions, a PDF copy of this letter will be forwarded to Terry Sheahan (CDPH) and Verneta Simon (USEPA) to fulfill the requirements of the CDPH.

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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Jennifer Nagle
Environmental Scientist



Steven C. Kornder, Ph.D.
Senior Project Geochemist

cc: Terry Sheahan, Chicago Department of Public Health
Verneta Simon, USEPA
Martha Rodriguez, ComEd

Attachments: CDPH Permit Form
Annotated Drawing and Results
Photographs

PERMITS



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

(STREETERVILLE Right-of-Way)

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Public Health (CDPH) as potentially having environmental contamination on the site and adjacent right-of way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 745-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. Please note that for some locations, additional health and safety procedures may be required by law.

Please complete the following:

I have reviewed and understand the documents, maintained by CDPH, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the CDPH and the United States Environmental Protection Agency within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print): Martha E. Rodriguez Signature: Martha E Rodriguez

Site Address and Work Location (Describe exact site location and attach map): 621 N Rush St - ComEd vault roof replacement. Vault is located under the sidewalk approximately at the southeast corner of N Rush St and E Ontario St intersection.

Nature of Work: See attached sheet for detailed project description.

Company Name, Address, Phone No.: Commonwealth Edison; ComEd North, 3 Lincoln Center, Oakbrook, IL; (312) 394-3260

General / Prime Contractor Name, Address, Phone No.: Meade Electric Co., Inc., 9550 W 55th St Ste A, Countryside, IL; (708) 588-2500 Include subcontractor information if applicable

Safety Officer / Phone No. Jim Bertucci (708) 642-0389

Radiation Contractor / Phone No. and email address (if applicable) AECOM - Steve Kornder, (262) 515-7700, Steve.Kornder@aecom.com

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT1256963

Today's Date: 6/24/2020 Expected Start Date: 6/29/2020 CDPH Approval / Date

Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall - Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

ComEd Vault Location

E Ontario St

621 N Rush St

N Rush St

E Ontario St

E Ohio St

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Google Earth

1999

Imagery Date: 5/23/2018 lat 41.892967° lon -87.626304° elev 0 ft eye alt 584 ft

621 N. Rush St.; ComEd Vault Roof Replacement
EFP-102572
PW2020-0014

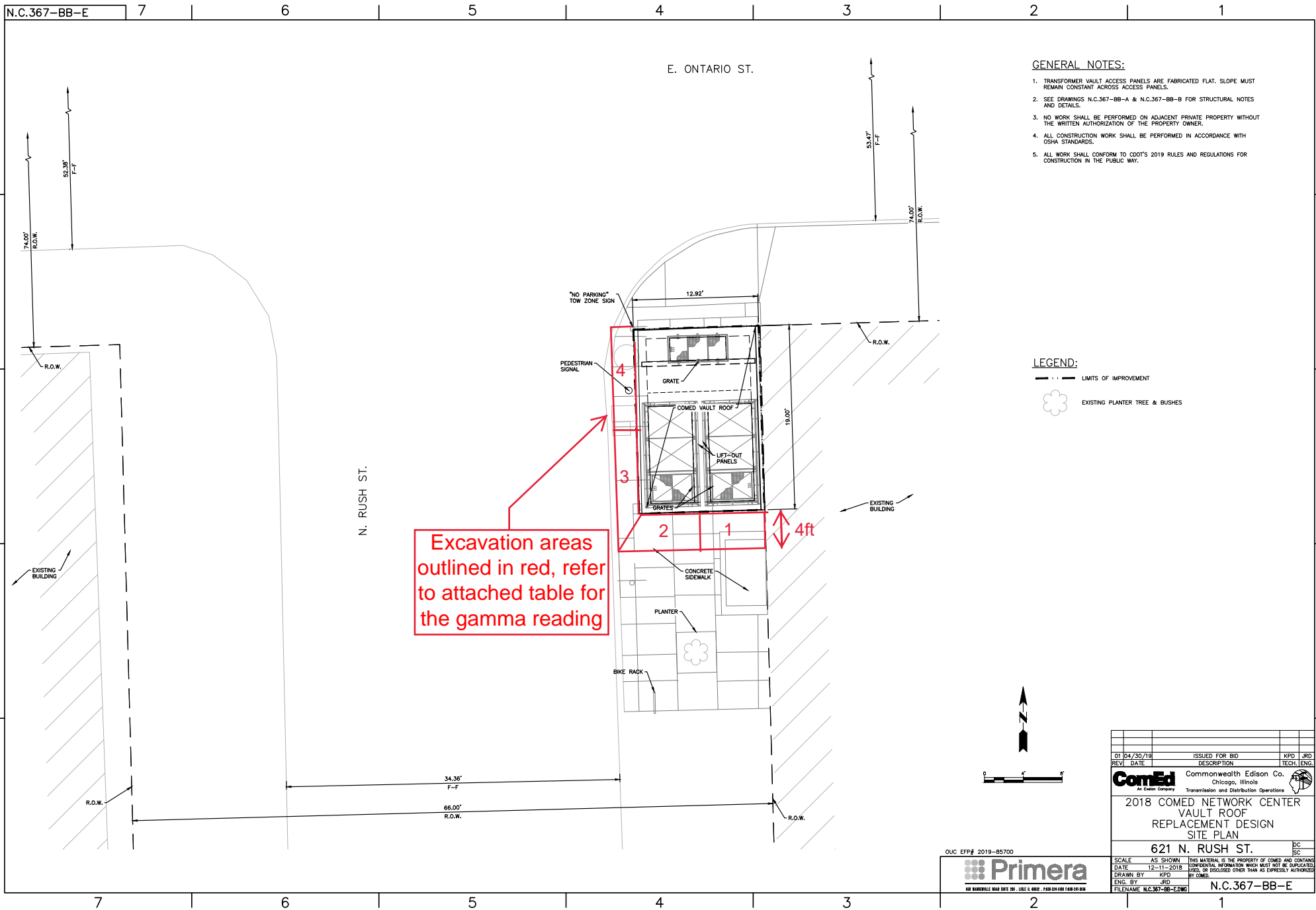
STREETERVILLE Right-of-Way

ATTACHMENT **for CDOT Permit No. DOT1256963**

Nature of Work / Project Description:

The vault roof replacement at 621 N. Rush is the replacement of the reinforced concrete roof for the vaulted space that services ComEd's 34kV transformers. The vaulted footprint is approximately 19'-0" x 13'-0". ComEd transformer vaults are most often found under the sidewalk and require approximately 2'-0" of excavation down to the bottom of the roof level. This vault will require 1'-6" of excavation. Timber sheeting will be installed on the north side of the vault to maintain the existing concrete at the southeast ADA corner at Ontario St and Rush St. The vault roof will meet grade at the existing north limit of the vault and transition to the sidewalk on the west and south ends.

ANNOTATED DRAWING AND RESULTS



GENERAL NOTES:

1. TRANSFORMER VAULT ACCESS PANELS ARE FABRICATED FLAT. SLOPE MUST REMAIN CONSTANT ACROSS ACCESS PANELS.
2. SEE DRAWINGS N.C.367-BB-A & N.C.367-BB-B FOR STRUCTURAL NOTES AND DETAILS.
3. NO WORK SHALL BE PERFORMED ON ADJACENT PRIVATE PROPERTY WITHOUT THE WRITTEN AUTHORIZATION OF THE PROPERTY OWNER.
4. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS.
5. ALL WORK SHALL CONFORM TO CDOT'S 2019 RULES AND REGULATIONS FOR CONSTRUCTION IN THE PUBLIC WAY.

LEGEND:

- LIMITS OF IMPROVEMENT
- EXISTING PLANTER TREE & BUSHES

Excavation areas outlined in red, refer to attached table for the gamma reading

01/04/30/19	ISSUED FOR BID	KPD	JRD
REV. DATE	DESCRIPTION	TECH. LENS.	
Commonwealth Edison Co. Chicago, Illinois Transmission and Distribution Operations			
2018 COMED NETWORK CENTER VAULT ROOF REPLACEMENT DESIGN SITE PLAN			
621 N. RUSH ST.			DC SC
SCALE: AS SHOWN THIS MATERIAL IS THE PROPERTY OF COMED AND CONTAINS CONFIDENTIAL INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED OTHER THAN AS EXPRESSLY AUTHORIZED BY COMED.			
DATE:	12-11-2018		
DRAWN BY:	KPD		
ENG. BY:	JRD		
FILENAME:	N.C.367-BB-E.DWG	N.C.367-BB-E	

4/26/2019 10:42 AM 4/26/2019 10:42 AM N:\WORKSPACE\2018\20180426\20180426\20180426\20180426.dwg JRD 02/28/2019

Gamma Survey Results
ComEd - 621 N Rush St.

Survey Equipment

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR174406
shielded:	6,620 cpm
background:	1,019 cpm
Personnel:	J. Nagle
Date of Screening:	7/8/2020

Survey Results

Section	Depth (inches)	Readings (CPM)
1	0-6	concrete
	6-18	1900
2	0-6	concrete
	6-18	1707
3	0-6	concrete
	6-18	1507
4	0-6	concrete
	6-18	2053

PHOTOGRAPHS



Western excavation area along N Rush St.



Sidewalk excavation area south of vault.