



AECOM
100 S. Wacker Drive, Suite 500
Chicago, Illinois 60606

312-939-1000 tel
312-939-4198 fax

October 18, 2017

Mr. Jim Steinike
Norman Mechanical Inc.
3850 Industrial Ave.
Rolling Meadows, IL 60611

RE: Sewer Service Installation – 243 E. Ontario St.
Permit No.: DOT853871
Permit Address: 243 East Ontario Street, Chicago, Illinois
AECOM Project No. 60522862

Dear Mr. Steinike:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance between September 13 and 19, 2017 for a trench excavation for the installation of new sewer service.

Surveying was performed on the fill removed at 243 E. Ontario Street required to address a new sewer service line installation. The work consisted of one five foot wide, approximately 28.5 foot long trench excavation. The excavation was excavated to approximately 10 feet below ground surface (bgs). See attached sketch for the location of the excavation.

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (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 an unshielded 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 7,374 (S/N: 172039) counts per minute (cpm) shielded.

The field gamma measurements within the excavation during the excavation process did not exceed the instrument threshold previously stated, and ranged from a minimum of 1,100 cpm to a maximum of 3,600 cpm shielded. The general subsurface stratigraphy was composed of urban fill, down to approximately 8 feet bgs where with fine tan native sand was located. 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. A copy of the permit and a field sketch documenting the area where work was performed, have been included as attachments.

As part of the permit conditions, this letter has been forwarded to:

Chicago Department of Public Health
Attention: Mr. Terry Sheahan
333 South State Street, Room 200
Chicago, Illinois 60604

Permit No.: DOT853871
Permit Address: 243 E. Ontario St.
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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Andrew Kozak
Geologist



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

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

Attachments: Permit
Sketch

PERMIT



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): Norman Mechanical / Jim Steinike Signature: Jim Steike

Site Address and Work Location (Describe exact site location and attach map): 243 E. Ontario Street (AKA 237 E Ontario)

Excavate for and install new water service approx 37' E of West property line

Nature of Work: Excavate for and install new sewer service approx 7.6' W of East property line

Company Name, Address, Phone No.: Norman Mechanical Inc. 847.253.2238

3850 Industrial Ave., Rolling Meadows, IL 60008
AECOM Tishman

General / Prime Contractor Name, Address, Phone No.: 230 E Ohio, Suite 300, Chicago, IL 60611

Include subcontractor information if applicable) Mark Gott 847.626.4125

Safety Officer / Phone No. Mark Gott 847.626.4125

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.: Application DOT853871

Today's Date: 8/31/2017 Expected Start Date: 9/11/2017 CDPH Approval / Date: [Signature] 9/1/17

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



ARCHITECT
VLS ARCHITECTS, P.C. 400 NORTH LA SALLE STREET
CHICAGO, ILLINOIS 60610
www.vlsarchitects.com

PROJECT TEAM
JOSEPH VALERIO
ROBERT WOODRUFF
MATT MARSH
PROJECT MANAGER

DATE SUBMITTED: 08/11/2014
DATE REVIEWED: 08/11/2014
DATE APPROVED: 08/11/2014
DATE REVISIONS: 08/11/2014

DESIGNED BY
JOSEPH VALERIO
ROBERT WOODRUFF
MATT MARSH

DATE: 08/11/2014

CONTRACT PROJECT NUMBER: *ALM-14-001*

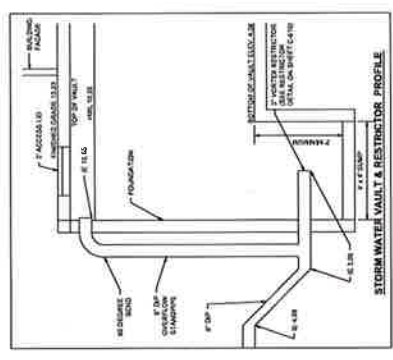
NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT	08/11/2014
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4	ISSUE FOR PERMIT	08/11/2014
5	ISSUE FOR PERMIT	08/11/2014
6	ISSUE FOR PERMIT	08/11/2014
7	ISSUE FOR PERMIT	08/11/2014
8	ISSUE FOR PERMIT	08/11/2014
9	ISSUE FOR PERMIT	08/11/2014
10	ISSUE FOR PERMIT	08/11/2014

DATE: 08/11/2014
BY: [Signature]
TITLE: [Signature]

- NOTES:**
- CONNECTION TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY TRENCHING OR INSTALLATION OF NEW UTILITIES. VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY TRENCHING OR INSTALLATION OF NEW UTILITIES.
 - ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY.
 - SEWER MANHOLES IN CHIMNEYS AND WALLS SHALL BE EXISTING UNLESS OTHERWISE SHOWN OTHERWISE TO BE NEW.
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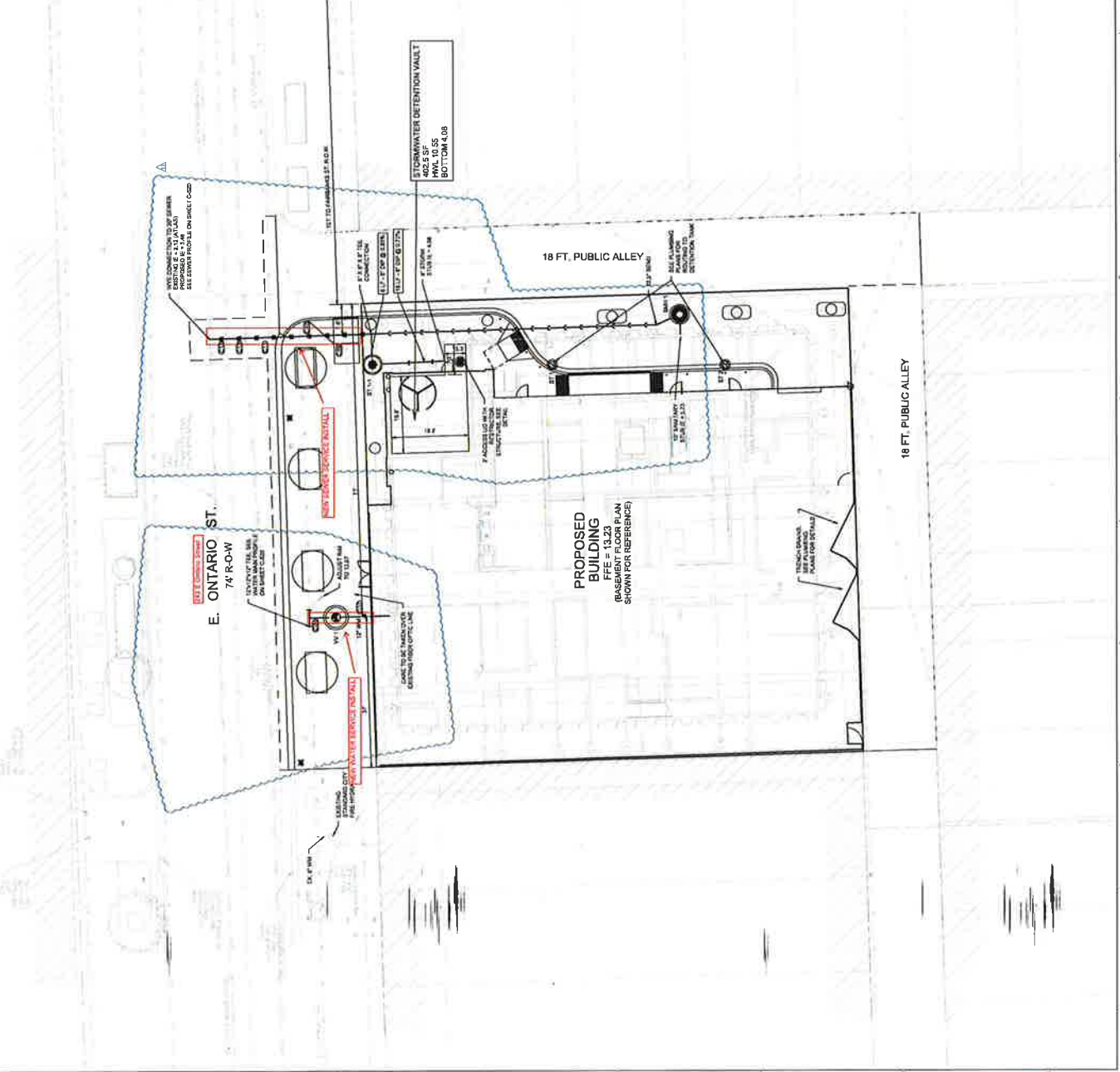
UTILITY CROSSINGS

NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT	08/11/2014
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7	ISSUE FOR PERMIT	08/11/2014
8	ISSUE FOR PERMIT	08/11/2014
9	ISSUE FOR PERMIT	08/11/2014
10	ISSUE FOR PERMIT	08/11/2014



STORMWATER MANAGEMENT SUMMARY

STORMWATER DETENTION REQUIRED	2.00 C.F. / 2.00 C.F. PROVIDED
VOLUME CONTROL REQUIRED	NA
ASSUMPTIONS	
TERRAIN	2.145 SF
LANDSCAPE	2.5F
TOTAL IMPERVIOUS AREA	1.000 SF
PERCENT IMPERVIOUS	1.000 SF
PERCENT OF IMPERVIOUS (TERRAIN TO ROOF)	2.000 SF
REQUIRED STORMWATER DETENTION VOLUME TO BE PROVIDED WITHIN WATER TIGHT CAST-IN-PLACE CONCRETE VAULT	
VOLUME CONTROL REQUIREMENT MET	
APPROXIMATE VOLUME OF WATER DETAINED BY THE SYSTEM	
NO DETENTION VOLUME CREDIT ASSUMED FOR STORMWATER RELEASE	



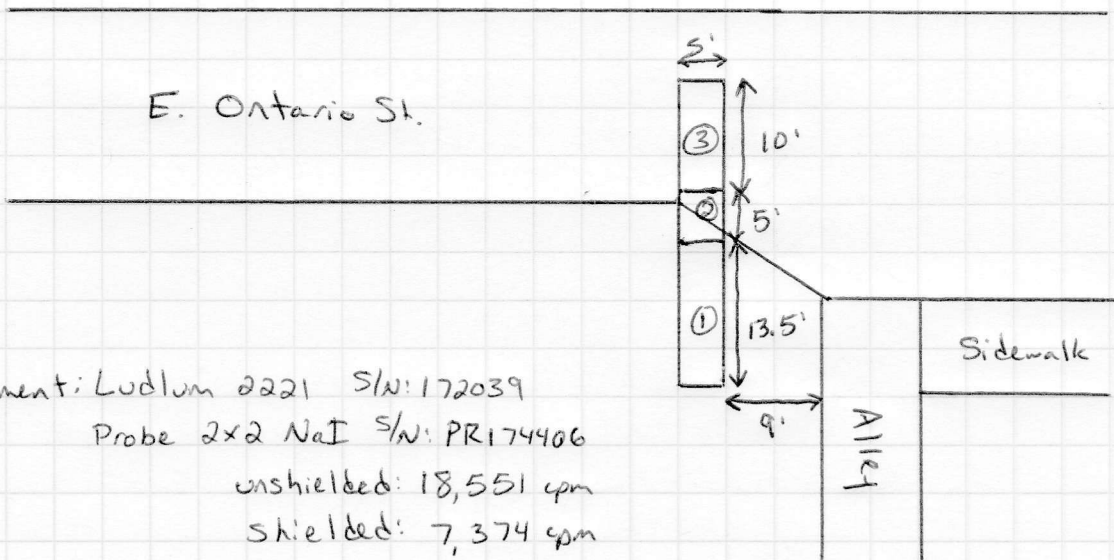
SKETCH

Job Title : 243 E. Ontario - Sewer

Originator : K. Korczak

Date : 10-10-17

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Equipment: Ludlum 2221 S/N: 172039
Probe 2x2 NaI S/N: PR174406
unshielded: 18,551 cpm
shielded: 7,374 cpm

<u>Depth</u>	<u>CPM (shielded)</u>
① Surface	Concrete
6"	1700-2200
24"	1800-3100
42" (spoil)	2200-3600
60" (spoil)	1900-3100
78" (spoil)	1900-2900
6.5-8' (spoil)	1300-2200
8'-10' (spoil)	1200-2100
② 0-18"	Concrete
18"-4' (spoil)	1200-1900
4-6' (spoil)	1200-2100
6-8' (spoil)	1400-2600
8-10' (spoil)	tan native sand
③ 0-12"	Concrete
12"	1800-2200
30"	1800-2300
3-5' (spoil)	1200-2600
5-8' (spoil)	1100-2200
8-10' (spoil)	tan native sand