



AECOM
303 East Wacker Drive, Suite 900
Chicago, Illinois 60601

312.938.0300 tel
312.938.1109 fax

October 15, 2010

Mr. Steve Hoffman
City Lights Ltd.
936 W. 40th Street
Chicago, IL 60609

EPA Region 5 Records Ctr.



379380

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 775385884
Permit Address: Columbus and E. Illinois Street
AECOM Project No. 60164013

Dear Mr. Hoffman:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago Department of Environment (CDOE), radiation monitoring was required to be performed at the above referenced site. AECOM provided the required radiation surveillance on October 11-13, 2010 for the installation of a red-light photo enforcement system that involved the removal and replacement of portions of the paved sidewalks on the southeast and northwest corners of Columbus and Illinois as well as the southeast corner of Park and Illinois (refer to attached drawing).

Radiological surveying was performed for the concrete and soil material removed for the excavation. The monitoring revealed no indication of soil material above the clean-up threshold established by the U. S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA cleanup threshold 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 made using a Ludlum Model 2221 survey meter (Serial #176944) and unshielded 2 x 2 NaI probes (Model 44-10). For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold is 17,522 counts per minute (cpm). Gamma readings and/or background at the surface was approximately 6,500 cpm. Gamma readings for the excavated soil materials ranged from 4,457 to 7,300 cpm. Thus, there was no indication of an exceedance of the USEPA cleanup threshold.

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

Chicago Department of Environment
Attention: Ms. Rahmat Begum
30 North LaSalle Street, 25th Floor
Chicago, Illinois 60602

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

Regards,

Steven T. Newlin
Senior Project Engineer

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

cc: Rahmat Begum, Chicago Department of Environment
Verneta Simon, USEPA

Attachments: Permit and Drawing

Sep-15-08 10:50

From: C E W C

10/12/08 10:07

1-979 2 007/007 7-795

312-744-3152



City of Chicago
Richard M. Daley, Mayor

Department of Environment

Sadhu A. Johnston
Commissioner

Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)

<http://www.cityofchicago.org>

775385884
Permit No.

Date
10-13-10

Site Address
Columbus +
(500 N) Illinois

Work Location (Describe
exact site location and
attach map)

SE + NW
QUAS PAN 25

Nature of Work
CAMERAS

Expected Start Date
10-25



CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT FORM NO. DOE.ROW.02

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Environment 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 the Department of Environment at 30 N. LaSalle St., 25th Floor, Chicago, Illinois 60602 during normal business hours (8:30AM - 4:30PM, Monday through Friday). Contact (312) 744-7606 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 the Department of Environment, 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 Department of Environment 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) STEVE HOFFMAN

Signature [Signature] Date

Company CITY LIGHTS

Company Address / Phone No. 9999 S VERNIA

Check if City Department Work ☒ Department Name BOE

Parent / Prime Contractor BOE / RSC FLEX
Include subcontractor information if applicable

Address 418 W 18th

Phone No. 358-5711

Safety Officer / Phone No. [Signature] 773-617-5106

Radiation Contractor / Phone No. (if applicable) [Signature] 847-343-6007

Department of Environment Approval / Date [Signature] 9/22/10

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

For DOE Use Only



CONSTRUCTION NOTES

- INSTALL FOUNDATION, REDFLEX CONTROL CABINET AND 5/8"x15" GROUND ROD. SEE CABINET FOUNDATION DETAIL.
- CONTRACTOR SHALL TERMINATE AND LAND ALL POWER CIRCUITS INTO REDFLEX CABINET.
- INSTALL INSIDE FUSE HOLDER ON RED AND AMBER PHASE CONDUCTOR WITH 5 AMP FUSE INSIDE REDFLEX CABINET AND 5 AMP IN-LINE FUSE ON RED AND AMBER PHASE IN CITY CABINET BEFORE RED PHASE CONNECTION TO PROTECT CITY TRAFFIC CABINET.
- INSTALL A 40 AMP CIRCUIT BREAKER INTO EXISTING POWER PANEL BY CITY B.O.E. FOR 120V SUPPLY TO REDFLEX CABINET.
- TERMINATE #14 WIRE TO RED AND AMBER PHASE AND NEUTRAL INSIDE CITY TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES. (NOTE: NOTIFY THE CITY B.O.E. 24 HOURS BEFORE CONNECTION.)
- INSTALL JUNCTION BOX OF THE SIZE AND TYPE PER STANDARDS OF THE CITY-VERIFY BEFORE INSTALLATION.
- INSTALL LOOPS AND CONDUIT STUBOUT FOR REDFLEX DETECTION. EACH LOOP MUST HAVE A SEPARATE HOME RUN AND LOOP LEAD IN CABLE. MAXIMUM 2 LOOPS PER SAWCUT. REDFLEX LOOPS TO BE LABELED AT REDFLEX CABINET. REPLACE CITY LOOPS IF REQUIRED TO CITY STANDARDS. SEE LOOP DETAIL AND DRAWING FOR QUANTITY AND LOOP ID#.
- INSTALL FOUNDATION POLE AND GROUND ROD FOR REDFLEX EQUIPMENT. SEE DRAWING FOR LOCATION. SEE POLE DETAIL.
- INSTALL CAMERA AND FLASH ENCLOSURE ON REDFLEX POLE; AIM AT MONITORED APPROACHES. ONE #14 AWG TSP CABLE FROM CAMERA ENCLOSURE TO FLASH.
- INSTALL A 250 WATT FLASH UNIT ON REDFLEX POLE, AIM AT MONITORED APPROACHES.
- TRACER WIRE TO BE RUN THROUGH ALL CONDUIT FROM THE REDFLEX CABINET TO ALL REDFLEX EQUIPMENT.
- REDFLEX TO UTILIZE EXISTING BORE CONDUIT FOR CONDUCTOR INSTALLATIONS UNDER ROADWAYS, CONDUITS ARE TO BE INTERCONNECTED THROUGH EXISTING B.O.E. HAND HOLES (MANHOLES).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #1 (HOT, NEUTRAL AND GROUND).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #2 (HOT, NEUTRAL AND GROUND).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #3 (HOT, NEUTRAL AND GROUND).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #4 (HOT, NEUTRAL AND GROUND).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #5 (HOT, NEUTRAL AND GROUND).
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #6 (HOT, NEUTRAL AND GROUND).
- INSTALL A 2" CONDUIT RISER ON TELCO POLE, RISING 10', TO MATE WITH COMCAST INTERFACE. INSTALL WEATHER HEAD.
- INCLUDE CONDUIT STUB IN CONTROLLER FOUNDATION FOR COMCAST CONNECTION.
- CATSE CABLE FROM CAMERA POLE TO REDFLEX CABINET.

GENERAL NOTES

- ALL EXISTING UTILITIES SHOWN WITHIN THE PLANS ARE PROVIDED BY THE BEST AVAILABLE INFORMATION PROVIDED BY COOPERATING UTILITY COMPANIES. NEITHER REDFLEX NOR THE CITY ASSUME RESPONSIBILITY AS TO THE PRECISION, LOCATION OR ACCURACY OF SHOWN UTILITIES. THE CONTRACTOR SHALL PROPERLY FIELD VERIFY UTILITY LOCATIONS AND SHALL PROPERLY PROTECT, MAINTAIN AND/OR REPAIR ANY DAMAGE OF ALL KNOWN AND ANY EXPOSED UNKNOWN UTILITIES SHOWN WITHIN THE PLANS. REDFLEX AND THE CITY ASSUME NO LIABILITY RESULTING IN POSSIBLE DEFICIENCIES IN UTILITY LOCATIONS AND NO REMEDIAL OR ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL WORK SHALL CONFORM TO ALL NATIONAL BUILDING AND ELECTRICAL CODES EXCEPT WHEN THE STATE D.O.T. AND/OR THE CITY STANDARDS SUPERSEDE.
- ALL CABLEING TO BE TAGGED AND IDENTIFIED.
- CONDUIT WORK BEHIND BACK OF CURB AND/OR WITHIN SIDEWALK TO BE DIRECTION BORING WITH A MINIMUM OF 30" COVER.
- CITY TO INSTALL SIGNS IN ALL DIRECTIONS OF ENFORCED INTERSECTION.

ABBREVIATIONS	
CAT'S	= CATEGORY FIVE CABLE
COAX	= COAXIAL CABLE
DLC	= DETECTOR LOOP CABLE (SHIELDED)
TSP	= TWISTED SHIELDED PAIR
LED	= LIGHT EMITTING DIODE
R/W	= RIGHT OF WAY
E.O.P.	= EDGE OF PAVEMENT
B.O.E.	= BUREAU OF ELECTRIC (CHICAGO)
-G-	= GAS UTILITIES
-E-	= ELECTRICAL UTILITIES
-W-	= WATER UTILITIES
-S-	= SEWER UTILITIES
-C-	= COMMUNICATION UTILITIES
-T-	= TELEGRAPH (POLICE/FIRE)
-H-	= COMED HIGH VOLTAGE (SEE NOTE)

POLE SCHEDULE			
NO.	TYPE	HEIGHT	NEED EXISTING
①	REDFLEX	10'	N
②	REDFLEX	10'	N
③	REDFLEX	10'	N
④	REDFLEX	10'	N

HAND DIG ALL NEW CONDUIT

LEGEND	
EXISTING JUNCTION BOX	
PROPOSED JUNCTION BOX	
PROPOSED RIS LOOPS	
PROPOSED REDFLEX CONTROL CABINET	
PROPOSED CAMERA W/FLASH	
PROPOSED PLATE FLASH	
PROPOSED CONDUIT	
EXISTING B.O.E. CONDUIT	
EXISTING CITY POWER METER	
EXISTING LUMINAIRE POLE	
EXISTING TRAFFIC SIGNAL HEAD	
EXISTING TRAFFIC SIGNAL POLE	
EXISTING TRAFFIC CONTROLLER	
EXISTING B.O.E. MANHOLE	
BUS SHELTER	

MUST VERIFY EXISTING UTILITY INFO AND LOCATION

CONDUCTORS		CONDUITS																TERMINATION
SOURCE	AWG #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
POLE 1	CATSE	3	3	3	3													REDFLEX CABINET
POLE 1 TSP	#14				2													POLE 8
POLE 2	CATSE	3				3	3	3	3	3	3							REDFLEX CABINET
POLE 3 TSP	#14										2							POLE 4
CITY POWER	#8	2				2						2	2					REDFLEX CABINET
DETROIT SIGNAL WIRE (7 OR 10 CABLE CONDUCTORS)	#14	2				2							2	2				REDFLEX CABINET
REDFLEX LOOP LEAD-IN	DLC	14	6			6	6	6	6									REDFLEX CABINET
POWER CIRCUIT 1 (REDFLEX CABINET)	#10	3	3	3	3													POLE 1
POWER CIRCUIT 2 (REDFLEX CABINET)	#10	3	3	3	3													POLE 2
POWER CIRCUIT 3 (REDFLEX CABINET)	#10	3	3	3	3													POLE 3
POWER CIRCUIT 4 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 4
POWER CIRCUIT 5 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 5
POWER CIRCUIT 6 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 6
TRACER WIRE (FOR LOCATING)	#10	1	1	1	1	1	1	1	1	1	1							ALL REDFLEX EQUIPMENT
TELECOM POINT OF TERMINATION	COAX																	REDFLEX CABINET
TOTAL NEW CONDUCTORS		43	21	13	12	23	19	19	19	13	12	4	4					
CONDUIT SIZE (INCHES)						3-D	2-D				6-D	2(3)						
CONDUIT LENGTH (- FEET)		4	18	15	35	5			8	33	25							
NEW/EXISTING CONDUIT		N	N	N	N	N	E	E	N	N	N	E	E					

SEAL		REVISIONS				RELAY SCHEDULE		 REDFLEX TRAFFIC SYSTEMS 15020 N. 74TH STREET SCOTTSDALE, AZ 85260 PH: 480 607 9705		DRAFTER: JA CHECKED: JA DESIGNED: JA PUBLIC WORKS (DPW) PUBLIC WORKS (DPW) PUBLIC WORKS (DPW)		REVIEWED BY CITY STAFF DEPARTMENT: METRO DATE:		APPROVED BY: PUBLIC WORKS DIRECTOR: JEFFREY J. GILBERT DATE:		CITY OF CHICAGO REDLIGHT PHOTO ENFORCEMENT TITLE: ILLINOIS AND COLUMBUS		DRAWING NO: 0334 6-01
VER.	DATE	INITIAL	DESCRIPTION	REVISIONS		NB	2											
1.0	6/15/15	JA	ADDITIONAL REVISIONS			EB												
						SB	2											
						WB												