



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

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

June 28, 2018

Mr. Tim Bulthaup
Commonwealth Edison Co.
2 Lincoln Centre
Oakbrook Terrace, IL 60181

RE: Replacement of Vault Roof in Sidewalk
Permit No.: DOT937960
Permit Address: 300-351 Lower E. Randolph St., Chicago, Illinois
AECOM Project No. 60493426 Task 213

Dear Mr. Bulthaup:

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 May 31 and June 13, 2018 for excavations related to a conduit and precast vault installation.

Surveying was performed on the fill material exposed beneath concrete roadway and sidewalk at 300-351 E. Randolph Lower St. (refer to annotated drawing) during the installation of an electrical conduit and a precast vault. The work consisted of removal of existing roadway and sidewalk as well as related excavations utilizing an excavator and a vacuum truck. The excavation consisted of a single trench approximately 120-feet long, 3 to 8-feet wide, and excavated to a depth of 1.5 to 10-feet below ground surface (bgs). The deepest portion of the excavation was near the existing vault on the north side of the intersection of Lower N. Columbus Drive and Lower E. Randolph Street. Surveying was completed on the exposed fill during the excavations. Refer to the annotated drawing for the dimensions and locations of the excavations.

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. Background level was recorded on the nearby sidewalk due to lack of exposed fill soil in the immediate area. The background level was recorded at 1,600 cpm.

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 1,000 cpm to a maximum of 5,200 cpm shielded. Section 11 (see annotated drawing) required timber framing and use of a vacuum-truck to complete the excavation from 7 to 10-feet bgs. Due to the limited accessibility and safety concerns, AECOM was not able to enter the excavation and conduct gamma screening with the vertical interval from 7 to 10-feet bgs. The lithology of this area consisted of yellow to light brown quartz sand, which is consistent with clean fill sand. Gamma readings above and below this section were less than twice the background value. Therefore, due to lack of urban fill and elevated readings in the vicinity of the excavation, AECOM did not consider the interval between 7 to 10-feet in section 11, to contain urban fill material. Also the walls of the excavation in this area did not exhibited readings indicative of radiological contamination.

Permit No.: DOT937960
Permit Address: 300-351 E. Randolph Lower St.
Page 2

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 at any of the excavations. A copy of the permit, annotated drawing and gamma survey results 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 60606

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

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
Annotated Drawing and Results

PERMIT



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (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): GLENN F YEAGER Signature: [Handwritten Signature]

Site Address and Work Location (Describe exact site location and attach map): 300-351 E RANDOLPH LOWER ST / N. COLUMBUS (LOWER LEVEL AND E RANDOLPH LOWER)

Nature of Work: Proposed ComEd distribution conduit installation via open cut trench and new precast vault

Company Name, Address, Phone No.: ComEd, 1 Lincoln Center, Oakbrook Terrace, IL. 60181, 630-576-6427

General / Prime Contractor Name, Address, Phone No.: Meade Electric 708-588-2500 9550 W 55th St St A Countryside IL 60525-3641
Include subcontractor information if applicable (Att: Glenn Yeager 312-617-6913)

Safety Officer / Phone No.: Steve Kornder, Ph.D. C 262.515.7700

Radiation Contractor / Phone No. (if applicable): Steve Kornder, Ph.D. C 262.515.7700

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT937960

Today's Date: 4/13/2018 Expected Start Date: 4/23/2018 CDPH Approval / Date: [Handwritten Signature] 4-17-18

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

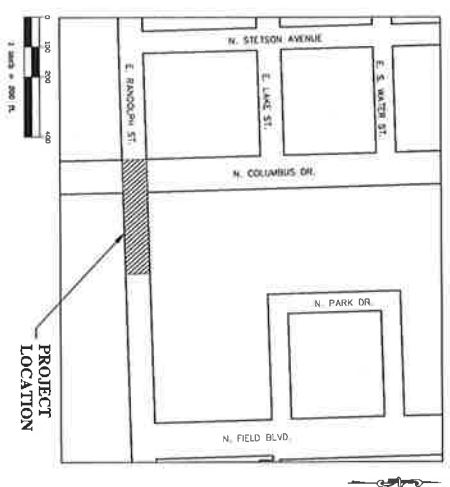
LEGEND

- PROPOSED TRENCHED CONDUIT
- EXISTING CTA MANHOLE
- EXISTING COMMUNICATION MANHOLE
- EXISTING RCM MANHOLE
- EXISTING SEWER CATCH BASIN
- EXISTING SEWER INLET
- EXISTING SBR MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING COMED MANHOLE
- EXISTING TRAFFIC LIGHT CONTROL BOX
- EXISTING ELECTRIC MANHOLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE VALVT
- EXISTING GAS VALVE
- EXISTING MCI MANHOLE
- EXISTING COMCAST MANHOLE
- EXISTING CFTV MANHOLE
- EXISTING UTILITY POLE
- EXISTING SLIP-POST / COLUMN
- EXISTING FIRE HYPORANT
- EXISTING PARKING PA-BOX
- EXISTING STREET LIGHT
- EXISTING STREET SIGN
- EXISTING TRAFFIC/LIGHT POLE
- EXISTING STREET LIGHT CONTROL BOX
- EXISTING MANHOLE
- EXISTING TREE
- APPROXIMATE PROPERTY LINE
- EXISTING FENCE
- EXISTING CONSTRUCTION FENCE
- EXISTING SEWER
- EXISTING ELECTRIC
- EXISTING WATER
- EXISTING GAS
- EXISTING DEAD GAS
- EXISTING SEC
- EXISTING COMED
- EXISTING COMCAST
- EXISTING RCM



An Exelon Company
COMED DISTRIBUTION
CONDUIT INSTALLATION
 301 E. RANDOLPH ST. FOR LOWER
 LOWER RANDOLPH AND COLUMBUS
 CHICAGO, ILLINOIS
 W.O. #14146990

SITE LOCATION MAP



30 NORTH LASALLE STREET, SUITE 310
 CHICAGO, IL 60602

NOTE:
 ONLY PRINTS WITH A SIGNED SEAL ARE TO BE USED DURING
 CONSTRUCTION AND CONSIDERED OFFICIAL COPIES. THESE PLANS ARE
 NOT TRANSFERABLE.

SHEET INDEX

DRAWING NO.	SHEET	DESCRIPTION	ISSUE/PURPOSE	REV
RM-01	01	THE LOCATION MAP LEGEND SHEET INDEX	ISSUED FOR CONSTRUCTION	A1
UD-01	01	UTILITY DETAIL LEGEND SHEET INDEX	ISSUED FOR CONSTRUCTION	A2
UD-02	02	PLAN AND PROFILE	ISSUED FOR CONSTRUCTION	A1
UD-03	03	RESTORATION PLAN	ISSUED FOR CONSTRUCTION	A1
UD-04	04	DETAILS	ISSUED FOR CONSTRUCTION	A1
UD-05	05	VAULT DETAILS	ISSUED FOR CONSTRUCTION	A1
UD-06	06	TRENCH SHIELDING DETAILS	ISSUED FOR CONSTRUCTION	A1
TC-01	07	TRAFFIC CONTROL PLAN 1	ISSUED FOR CONSTRUCTION	A1
TC-02	08	TRAFFIC CONTROL PLAN 2	ISSUED FOR CONSTRUCTION	A1
S1	09	1" - ABOVE GRADE - STRONG AXIS	ISSUED FOR CONSTRUCTION	A1
S2	10	1" - BELOW GRADE - STRONG AXIS	ISSUED FOR CONSTRUCTION	A1
S3	11	1" - BELOW GRADE - STRONG AXIS	ISSUED FOR CONSTRUCTION	A1
S4	12	1" - BELOW GRADE - STRONG AXIS	ISSUED FOR CONSTRUCTION	A1
S5	13	1" - BELOW GRADE - WEAK AXIS	ISSUED FOR CONSTRUCTION	A1
S6	14	1" - BELOW GRADE - WEAK AXIS	ISSUED FOR CONSTRUCTION	A1
S6	15	1" - BELOW GRADE - WEAK AXIS	ISSUED FOR CONSTRUCTION	A1

CE-ST-820
 OUC#2018-81046

hbk
 THE ENGINEERING FIRM
 1100 N. LA SALLE STREET, SUITE 310
 CHICAGO, IL 60610
 PHONE: 312.467.1100
 FAX: 312.467.1101
 WWW.HBKENGINEERING.COM

PROJECT NO. 16-1097

DATE: 04-26-2018

SCALE: AS SHOWN

PROJECT: 301 E. RANDOLPH ST. FOR LOWER RANDOLPH AND COLUMBUS

DATE: 04-26-2018



ANNOTATED DRAWING AND RESULTS

CE-ST-820 OUC#2018-81046

GENERAL CONSTRUCTION NOTES

- ALL WORK DONE BY CONTRACTOR/INSTALLER PURSUANT TO THIS DRAWING SHALL:
 - CONFORM TO THE GOVERNING CONTRACT DOCUMENTS
 - BE PERFORMED EXCLUSIVELY BY ITS TRAINED, COMPETENT PERSONNEL OR, WHERE PERMITTED, THAT OF ITS SUBCONTRACTOR(S)
 - COMPLY WITH ALL APPLICABLE SAFETY LAWS, REGULATIONS, PROGRAMS AND PRACTICES TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THE CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.
- REFERENCES USED HAVE BEEN IDENTIFIED ON EXCAVATION/FOUNDATION/DEMOLITION DRAWINGS AND HAVE BEEN PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD FOR LOCATING EXISTING UTILITIES AND OTHER POTENTIAL UNDERGROUND OR EMBEDDED INTERFERENCES. THESE REFERENCES ONLY SHOW THE APPROXIMATE LOCATION OF POTENTIAL UNDERGROUND OR EMBEDDED UTILITIES AND MAY NOT INDICATE OR REFLECT ALL EXISTING UNDERGROUND OR EMBEDDED UTILITIES OR THEIR ACTUAL LOCATIONS.
- UNDERGROUND OR EMBEDDED UTILITIES [MAY] EXIST WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK. THE LOCATION OR IDENTIFICATION OF SUCH UTILITIES HAS NOT BEEN VERIFIED BY OWNER OR BY HBK ENGINEERING. CONTRACTOR/INSTALLER IS RESPONSIBLE FOR FIELD LOCATING AND IDENTIFYING UNDERGROUND AND EMBEDDED UTILITIES AND ANY OTHER UNDERGROUND AND EMBEDDED UTILITY DIMENSIONS.
- REFERENCES IDENTIFIED SHALL NOT SUBSTITUTE FOR THE CONTRACTOR'S/INSTALLER'S OBLIGATION TO FIELD LOCATE ANY UNDERGROUND OR EMBEDDED UTILITIES OR INTERFERENCES THAT MAY AFFECT THE WORK.
- DUE CAUTION SHALL BE TAKEN DURING ANY EXCAVATION/FOUNDATION/DEMOLITION WORK WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK DUE TO POSSIBLE INTERFERENCES THAT MAY NOT BE REFLECTED ON THE REFERENCES IDENTIFIED.
- CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.
- THE UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN WERE DERIVED FROM DRAWINGS PROVIDED BY COMMONWEALTH EDISON AND THE CHICAGO DEPARTMENT OF TRANSPORTATION-OFFICE OF UNDERGROUND COORDINATION IR AND EFP PROCESSES. EXISTING FACILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. "DIGGER" IS TO BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION WORK ON THIS PROJECT (312-744-700)
- CONTRACTOR SHALL VERIFY LOCATIONS OF CONDUIT DEAD-ENDS WITH COMED CONSTRUCTION SUPERVISOR.
- THE CONTRACTOR IS ADVISED TO MAINTAIN THE APPROVED MINIMUM 4'-0" HORIZONTAL AND 1'-6" VERTICAL CLEARANCES BETWEEN EXISTING SEWER AND SEWER STRUCTURES AND 3'-0" HORIZONTAL AND 1'-6" MINIMUM VERTICAL SEPARATION FOR ALL EXISTING WATER MAINS AND STRUCTURES. DEPARTMENT OF WATER MANAGEMENT FACILITIES DAMAGED DURING THIS WORK MUST BE REPORTED TO THE ENGINEERING SECTION AND MUST BE REPAIRED BY A "LICENSED DRAIN LAYER" UNDER SUPERVISION OF THE MASON INSPECTOR AND SEWER PERMIT UNIT AT 312-747-7049, 312-747-7893, RESPECTIVELY.
- THE EXISTING ABOVE GROUND UTILITY STRUCTURES AND IMPROVEMENTS SHOWN ON THIS PLAN WERE FIELD LOCATED AND VERIFIED UTILIZING CONVENTIONAL (TOTAL STATION) DATA COLLECTION METHODS.
- RESTORE PAVEMENT PER RESTORATION PLANS (SEE DRAWINGS CE-ST-820/ UIC-03) UNLESS OTHERWISE DIRECTED BY CDOT.
- A REPRESENTATIVE OF THE DWM-WATER SECTION MUST BE ON SITE DURING THE TEMPORARY SUPPORT OF EXISTING WATER FACILITIES. PLEASE CONTACT THE FORCE ACCOUNT CONSTRUCTION MANAGER AT FACM@TRWATER.NET TWO WEEKS PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A DWM-WATER SECTION REPRESENTATIVE CAN BE ASSIGNED TO THE PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM'S STANDARDS.

BEGIN CONSTRUCTION AT SOUTHEAST WALL OF MH387352. INSTALL (1Hx4W) ENTRANCE BELLS FOR CONDUITS PER COMED SPECIFICATIONS C4231.B AND C4455.

PROPOSED 177 LINEAR FEET OF 4-5" PVC CONCRETE ENCASED CONDUIT VIA OPEN CUT TRENCH (FOR DUCT PACKAGE CONFIGURATION DETAILS SEE SHEET 05 OF 15)

INSTALL NEW PRECAST VAULT PER COMED SPECIFICATION C1688.A (SEE SHEET 06 OF 15 FOR DETAILS)

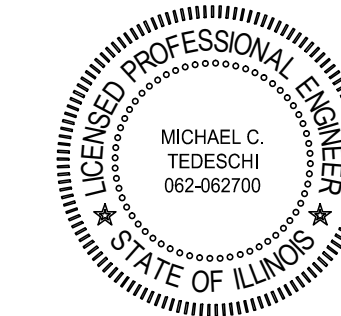
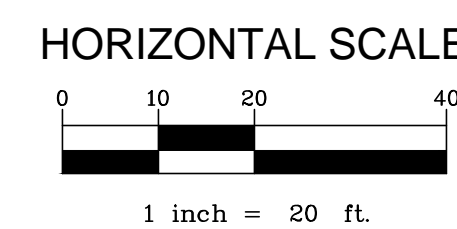
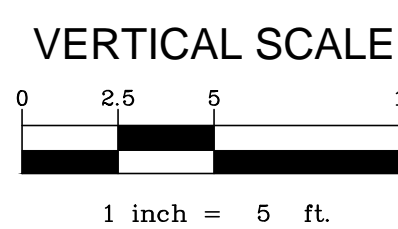
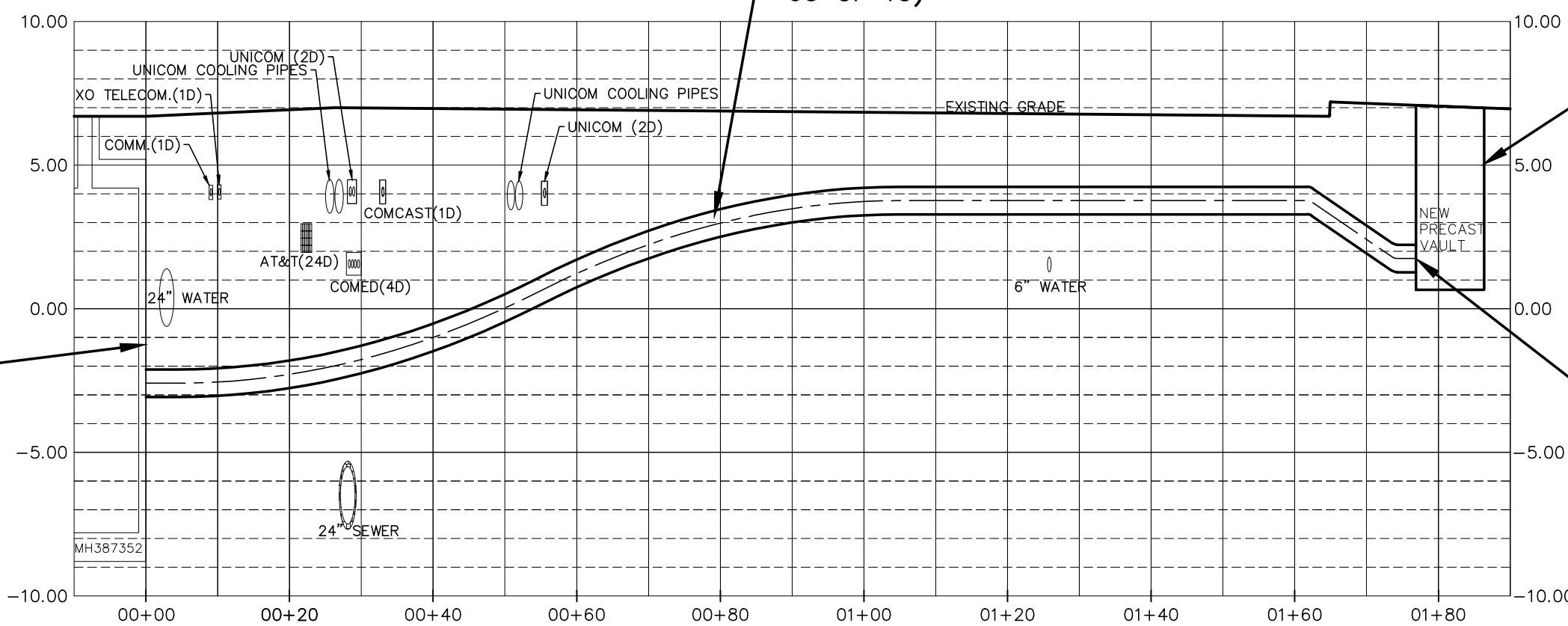
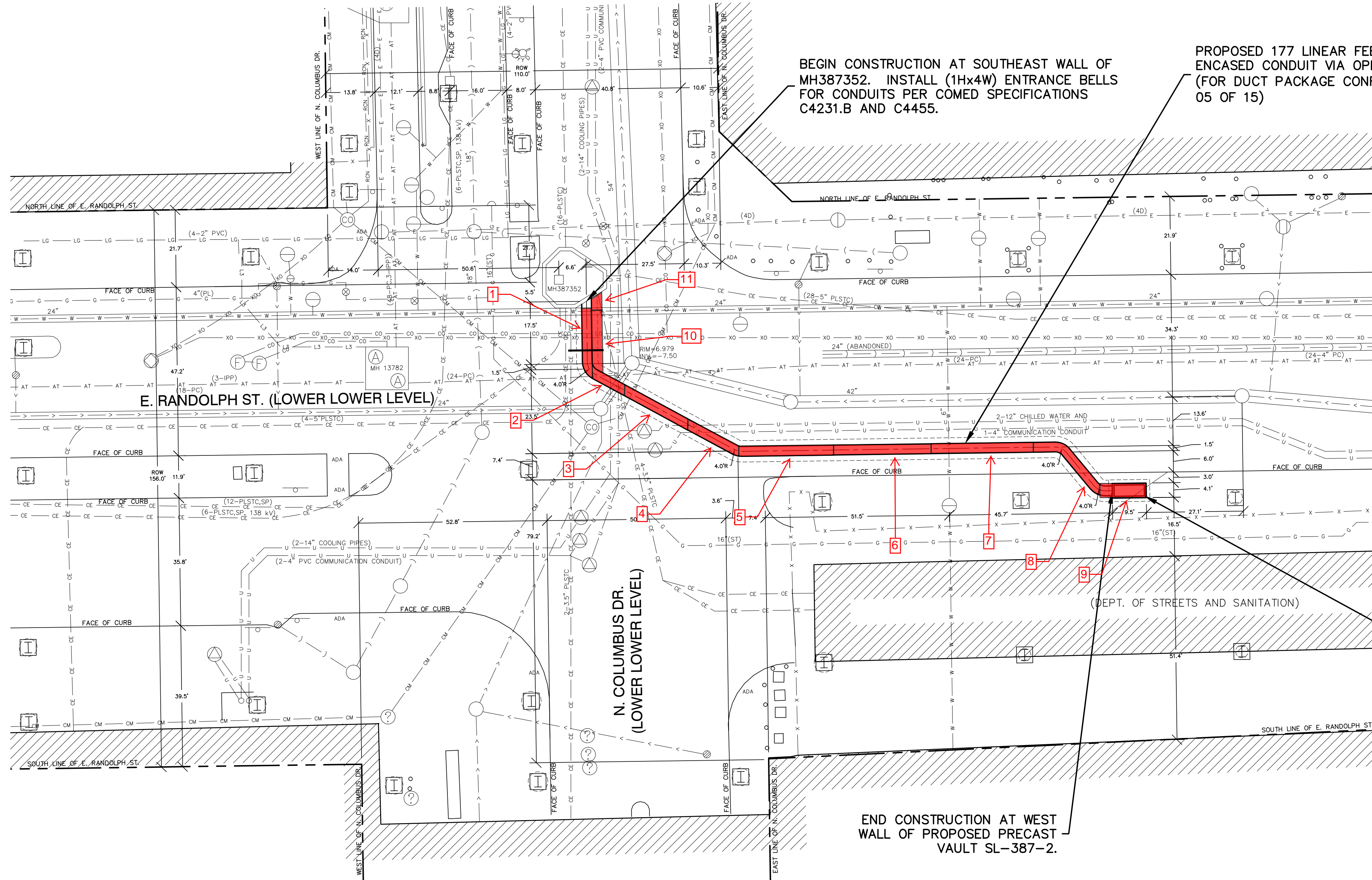
END CONSTRUCTION AT WEST WALL OF PROPOSED PRECAST VAULT SL-387-2.

PROPOSED 177 LINEAR FEET OF 4-5" PVC CONCRETE ENCASED CONDUIT VIA OPEN CUT TRENCH (FOR DUCT PACKAGE CONFIGURATION DETAILS SEE SHEET 05 OF 15)

INSTALL NEW PRECAST VAULT PER COMED SPECIFICATION C1688.A (SEE SHEET 06 OF 15 FOR DETAILS)

END CONSTRUCTION AT WEST WALL OF PROPOSED PRECAST VAULT SL-387-2.

BEGIN CONSTRUCTION AT SOUTHEAST WALL OF MH387352. INSTALL (1Hx4W) ENTRANCE BELLS FOR CONDUITS PER COMED SPECIFICATIONS C4231.B AND C4455.



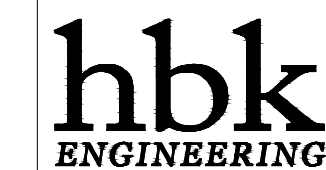
PROFESSIONAL ENGINEER
EXPIRES 11-30-2019

Michael C. Teleschi
SIGNATURE

04-09-2018
DATE

REV	DATE	DESCRIPTION	PREPARED	REVIEWED	APPROVED
A1	04-09-18	ISSUED FOR CONSTRUCTION	LHS	LKR	MCT
A0	02-13-18	FOR OUR REVIEW	LHS	LKR	MCT

REV	DESCRIPTION	P.D.	P.E.	DATE
	COMED DISTRIBUTION CONDUIT INSTALLATION 301 E. RANDOLPH ST. FOR LOWER LOWER RANDOLPH AND COLUMBUS PLAN AND PROFILE			
	MCT	312-253-1800	LHS	
	PROJECT ENGINEER	PHONE NO.	PROJECT DESIGNER	
	04-09-18	AS SHOWN	14146990	
	DATE	SCALE	P.L. NO.	PASSPORT W/O
			UIC-02	03 OF 15
			16-1097	PAGE
				DRAWING NO.



HBK ENGINEERING, LLC
921 WEST VAN BUREN, SUITE 100
CHICAGO, IL 60607
PHONE: (312) 432-0076 FAX: (312) 432-0231
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LICENSE NO. 184-002308

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN HBK IS NOT THE RESPONSIBILITY OF HBK

PROJ. No. 16-1097

PROJECT ENGINEER: LHS
PROJECT DESIGNER: LKR
DATE: 04-09-18
SCALE: AS SHOWN
P.L. NO.: UIC-02
PASSPORT W/O: 14146990
PAGE: 03 OF 15
DRAWING NO.: 16-1097

Survey Results
 300-351 E. Randolph Lower St.
 ComEd/Mead

Survey Equipment

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR174406
shielded:	7,374 cpm
background:	1,600 cpm (sidewalk)
source block:	25,000-29,000 cpm
Personnel:	A. Pacyga
Date of Screening:	5.31.18-6.13.18

Survey Results

Section	Depth (inches)	Readings (CPM-Shielded)
1	0	Pavement
	16	1,200-1,800
	36	1,600-2,400
	54	1,300-1,800
2	0	Pavement
	16	1,400-1,600
	36	1,300-1,800
	54	1,400-2,000
3	0	Pavement
	18	1,200-1,800
	36	1,300-1,600
	54	2,000-2,700
	54-72 (spoil)	1,000-1,600
4	0	Pavement
	16	1,200-1,800
	38	1,400-2,000
	54	2,100-2,900
	54-72 (spoil)	1,000-1,600
5	0	Pavement
	18	1,500-2,200
	36	1,800-2,800
	54	1,800-2,600
6	0	Pavement
	16	1,600-2,000
	36-54 (spoil)	1,800-2,400
	54	2,800-4,000
7	0	Pavement
	16	1,800-2,200
	36-54 (spoil)	2,200-2,900
	54	3,600-5,200
8	0	Pavement
	16	1,500-2,300
	36-54 (spoil)	1,800-2,900
	54	3,600-4,800

Survey Results
 300-351 E. Randolph Lower St.
 ComEd/Mead

9	0	Pavement
	16	1,600-2,200
	36	2,400-3,300
	36-54 (spoil)	1,800-3,400
	54-72 (spoil)	1,400-2,200
	72-84 (spoil)	1,000-1,900
10	0	Pavement
	16	1,400-2,000
	36	1,200-1,800
	54	1,800-2,400
	72-84 (spoil)	2,000-2,800
11	0	Pavement
	16	1,200-1,800
	36	1,400-1,800
	54	1,600-2,400
	72-84 (spoil)	1,500-2,100
	84-120 (spoil)	*
	120	2,000-3,000

* screening was limited due to accessibility