



AECOM
303 E. Wacker Drive, Suite 1400
Chicago, Illinois 60606

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

958162

May 27, 2020

Mr. Jeff Musil
Project Manager
John Burns Construction Company
17601 Southwest Highway
Orland Park, IL 60467

RE: Streeterville Thorium Monitoring Results
Permit No.: CDOT1228062 revised (CDOT1131688 original)
Permit Address: 405 E Grand Ave., Chicago, Illinois
AECOM Project No. 60616106.100

Dear Mr. Musil:

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 work. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on April 28-30, 2020 and May 4 and 5, 2020. The work entailed the replacement of a utility pole and trench excavation to install conduit for power and fiber optic cable. The utility pole replacement was conducted with a vac-truck on the southeast corner of the intersection of E. Grand Ave. and N. McClurg Ct. The trench excavation was conducted within the same intersection and east of that intersection along the south curb of E. Grand Ave. (refer to the attached drawing). The work to replace the utility pole resulted in sidewalk opening with a maximum depth of 9-feet. The trench excavation work in the E. Grand Ave. ROW was 18-inches wide and 32-36 inches deep.

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 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 with a short probe cord and 6,288 cpm shielded with a long probe cord. The field instrument fill soil background utilizing a short cord for the probe was 2,727 cpm shielded.

Gamma surveying for the utility pole excavation was conducted with the Ludlum probe on a long cord so that the fill soil could be monitored in 18-inch lifts prior to extraction with the vac-truck. The utility pole gamma results ranged from 1,987 cpm to a maximum of 5,311 cpm shielded. The highest gamma reading occurred south of the utility pole location at a depth of 30 to 48-inches. No gamma readings were observed above the instrument threshold of 6,288 cpm shielded for the utility pole replacement. Field gamma measurements within the trench excavations, and for the excavated spoil, were measured using a short probe cord (threshold 6,620 cpm shielded). The gamma counts for the trenches in the street ROW ranged from 1,712 cpm to a maximum of 3,864 cpm shielded. 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 based on field observations for the utility pole replacement or the associated trench excavations.

A copy of the CDPH form, an annotated drawing and the tabulated gamma results are included as attachments to this letter report. As part of the permit conditions, a PDF copy of this letter is being forwarded to Terry Sheahan (CDPH) and Verneta Simon (USEPA) to fulfill the requirements of the CDPH.

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Permit Address: 405 E Grand Ave.
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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

Attachments: CDPH Permit Form
Annotated Drawing and Gamma Results

CDPH PERMIT FORM



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): Jeffrey Musil, for John Burns Construction, on behalf of AT&T Signature: Jeffrey Musil

Site Address and Work Location (Describe exact site location and attach map): 405 E. Grand Ave, Chicago, IL

Nature of Work: Open cut trench to install fiber and power conduit for a proposed small cell site. Remove and replace pole foundation.

Company Name, Address, Phone No.: AT&T

General / Prime Contractor Name, Address, Phone No.: John Burns Construction, 17601 Southwest Hwy, Orland Park, IL 60467, 708-326-3500
Include subcontractor information if applicable)

Safety Officer / Phone No. Kevin O'Leary, 312-550-6059

Radiation Contractor / Phone No. and email address (if applicable) AECOM Consultants, 312-373-7700

Check if City Department Work Department Name: N/A

CDOT Permit No.: DOT1228062

Today's Date: 3/30/2020 Expected Start Date: 4/27/2020 CDPH Approval / Date: J Sheahan 4/2/20

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



OUTSIDE PLANT FIBER OPTIC BUILD

AT&T DEARBORN NODE #05

405 E GRAND AVE
CHICAGO, IL 60611

SEC 10, T39N-R14E
CHICAGO, COOK COUNTY, ILLINOIS



NODE POLE INFORMATION:

SCALE: NOT TO SCALE / FROM WEST

ADDRESS: 405 E GRAND AVE, CHICAGO IL 60654
LATITUDE: 41.891721°
LONGITUDE: -87.617525°

BENCHMARK INFORMATION:

BENCHMARK: 89
ELEVATION: 12.882
LOCATION DESCRIPTION:
4 FEET E. OF E. LINE OF MICHIGAN TO W. 19 FEET S. OF THE N. LINE OF E. CHICAGO AVENUE AND 1981 ELEVATION PREVIOUS TO 1986 WAS 12.906 TOWER COURT WAS CHANGED TO N. MICHIGAN (TO THE WEST)
BOOK NUMBER: 40
BENCHMARK ELEVATION (DED. 1988): 12.882
LATITUDE: 41.89822
LONGITUDE: -87.62419



LOCATION MAP

SCALE: NOT TO SCALE



PROJECT NUMBERS:

QUC NO: EFP-100566
PROJECT NO: DASC-1783-003-L05R1
DEO WORK NO: 11717068

PROJECT DESCRIPTION:

INSTALLATION OF 0.2 OF SCHEDULE 40 PVC CONDUIT @ 48" MINIMUM DEPTH BY OPEN CUT/TRENCH TO THE ABOVE MENTIONED ADDRESS:
CONSTRUCTION FOR POWER STARTS AT EXISTING CORNER MARKER IN EAST SIDE OF GRAND AVENUE. 1. CONTINUE SOUTH APPROX. 2' TO JOINT TRENCH WITH FIBER DESIGN. CONSTRUCTION FOR FIBER START AT EXISTING AT&T MH #15067 EAST OF THE INTERSECTION OF MCLURG & GRAND. CONTINUE EAST APPROX. 3' TO INTERSECTION OF GRAND & GRAND. CONTINUE EAST APPROX. 80' TO TRENCH WITH POWER BUILD CONTINUE SOUTH APPROX. 11' TO NODE SITE.

DRAWING INDEX

SHEET	TITLE
1	COVER
2	CONTRACT INFORMATION & LEGEND
3	NOTES & ABBREVIATIONS
4	TYPICALS
5	POLE SPECIFICATIONS & FOUNDATION DETAILS
6	BILL OF MATERIALS
7	PROPOSED NODE EQUIPMENT PROFILE
8-16	TRAFFIC PLANS
17	RESTORATION PLAN
18	OSP PLAN & PROFILE VIEWS



CHICAGO DIGGERS HOTLINE
REQUIRES 48 HRS.
NOTICE BEFORE YOU EXCAVATE



REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. HESSE
STATE OF ILLINOIS
NO. 041-072472

DRAWING SCALE: AS NOTED

ENGINEER: **CCSI**

2849 GARLAND RD.
BROOKVIEW, IL 60155
OFFICE 630.572.8888
FAX 630.572.8880

OWNER: **AT&T**

530 NATIONAL PARKWAY
SCHAUMBURG, IL 60197
OFFICE 647.982.3000

DEVELOPER: **Mastec Network Solutions**

1351 E. IRVING PARK RD.
TINACA, IL 60143
OFFICE 647.633.3500
FAX 630.252.1333

TITLE: OUTSIDE PLANT FIBER (NODE #05)

AT&T DEARBORN (NODE #05)
405 E GRAND AVE
CHICAGO, IL 60611

EFP NUMBER: EFP-100566

PROJECT NUMBER: DASC-1783-003-L05R1
DRAWN BY: CJ
DATE DRAWN: 08/27/17

CORNER CONTRACT

17 02/05/20
18 07/20/20
15 01/15/20
14 01/03/20
13 01/02/20
12 11/05/19
11 09/21/17

NO. DATE

1 OF 18

ANNOTATED DRAWING AND GAMMA RESULTS

ISSUED FOR CONSTRUCTION

PLAN & PROFILE

GAS NOTE:
PEOPLES GAS FACILITIES ARE PRESENT WITHIN AREA OF CONSTRUCTION. USE EXTREME CAUTION NEAR ALL GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES. HAND EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS MAIN(S) PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS MAINS WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS MAINS WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18" EDGE TO EDGE VERTICAL CLEARANCE ON GAS MAINS 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE ON 18" AND LARGER DIAMETER GAS MAINS. CONTACT DIGGER 312-744-7000 FOR LOCATES 48 HOURS PRIOR TO START OF CONSTRUCTION.

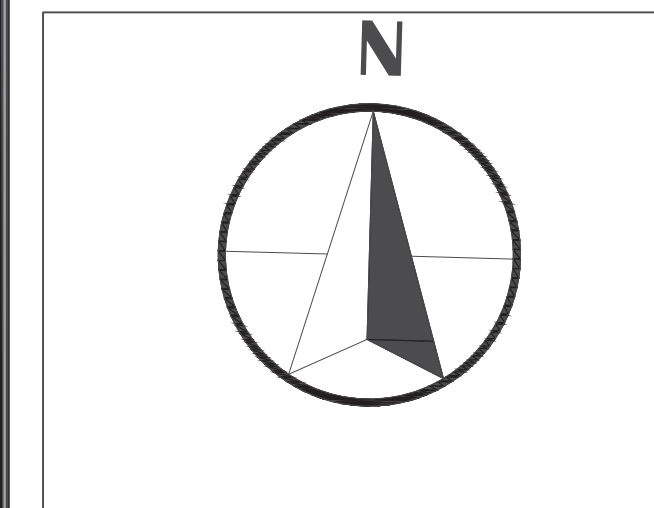
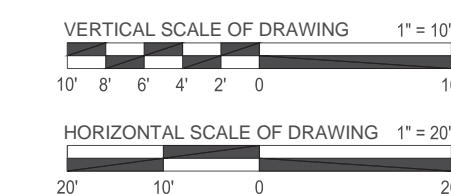
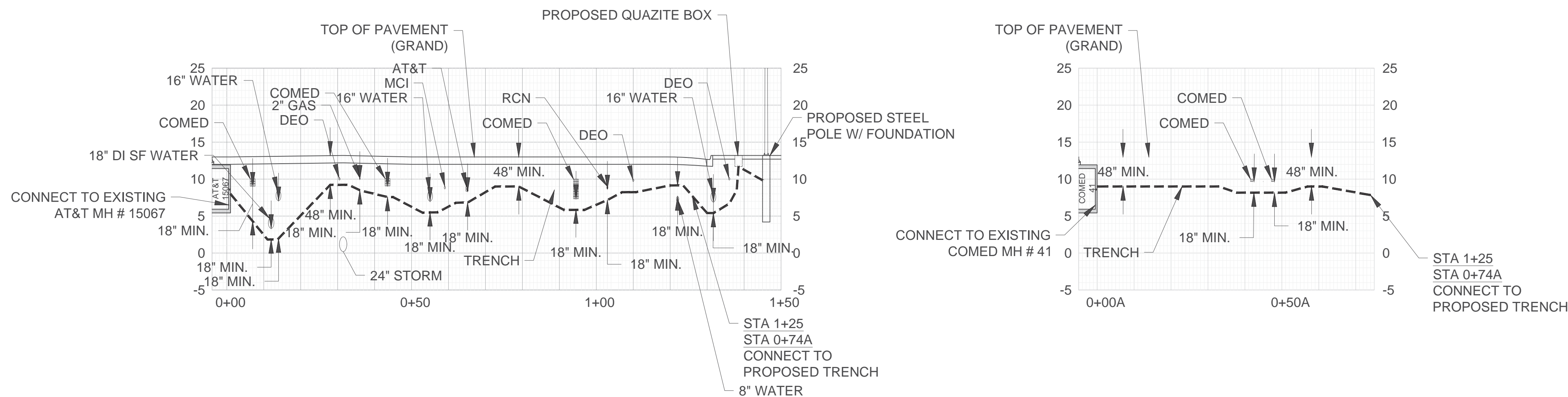
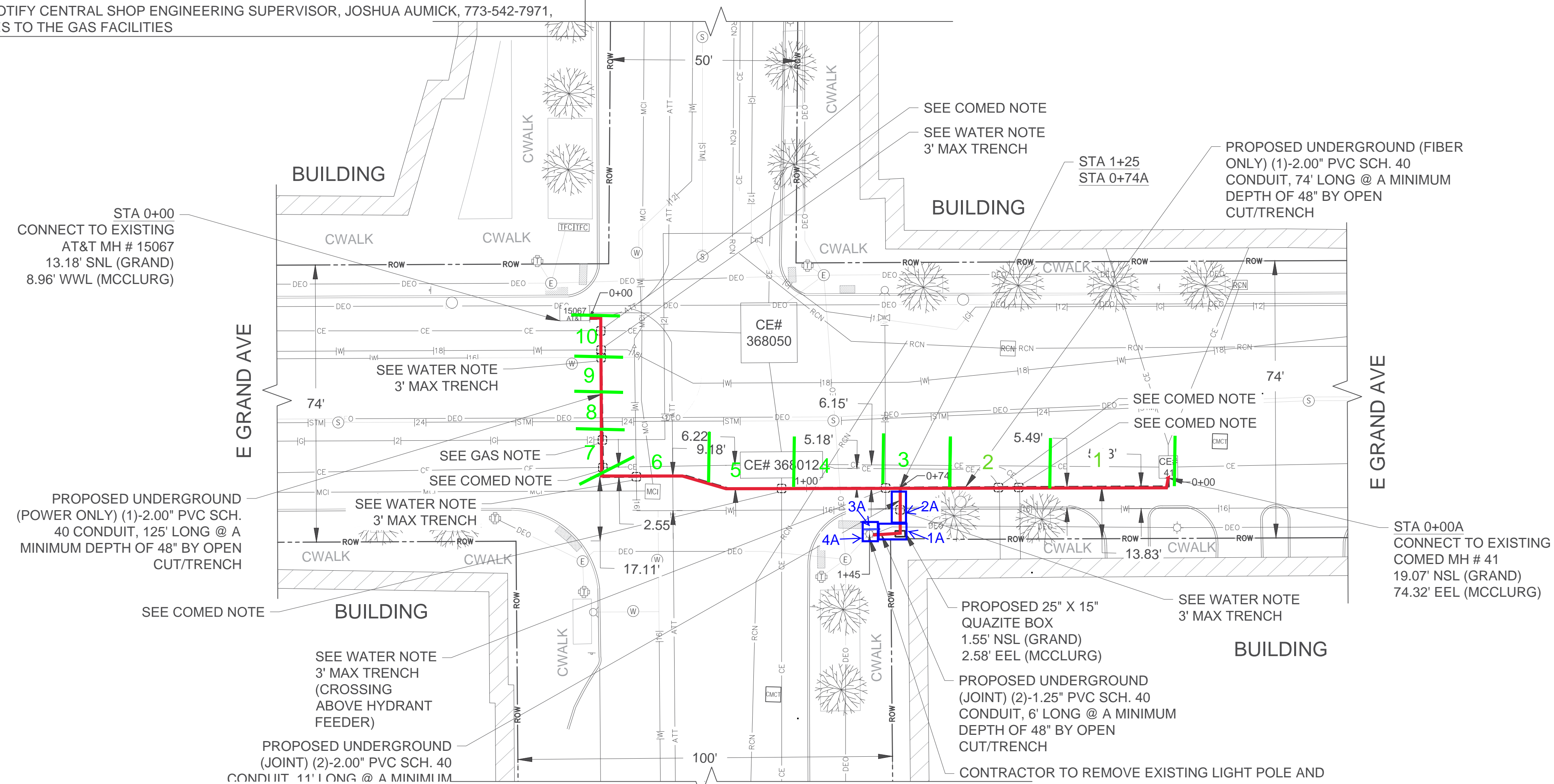
THE USE OF CONCRETE, FLOW FILL, OR THE LIKE IS PROHIBITED WITHIN 24 INCHES OF ALL GAS FACILITIES, NOR SHALL IT ENCASE ANY GAS FACILITY. SAND IS TO BE USED AS A BUFFER BETWEEN FLOW FILL AND ALL GAS FACILITIES. ANY DAMAGES TO PEOPLES GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTOR(S). NOTIFY CENTRAL SHOP ENGINEERING SUPERVISOR, JOSHUA AUMICK, 773-542-7971, IMMEDIATELY FOR ANY DAMAGES TO THE GAS FACILITIES

LOCATION: SEC 10, T39N-R14E,
CHICAGO, COOK COUNTY, ILLINOIS

COMED NOTE:
USE EXTREME CAUTION NEAR COMED FACILITIES. HAND DIG WHILE CROSSING ALL 69/138/345 KV TRANSMISSION LINE. COMED TRANSMISSION SHALL BE NOTIFIED 2 BUSINESS DAYS PRIOR TO THE START OF WORK. TO SCHEDULE AN ONSITE INSPECTOR DURING CONSTRUCTION, CONTACT LESLIE PASCHAL AT (630) 437-4767.

WATER NOTE:
A REPRESENTATIVE OF THE DWM MUST BE ON SITE DURING EXCAVATION AND INSTALLATION OF THE PROPOSED CONDUIT WHERE IT CROSSES ABOVE THE 18-INCH SEDIMENT FORCE MAIN. CONTACT THE FORCE ACCOUNT CONSTRUCTION MANAGER AT FACM@CTRWATER.NET TWO WEEKS PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A DWM 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

CONSTRUCTION NOTE:
FOR FIBER PULL ASSISTANCE, LEAVE STRATEGIC PULL ACCESS POINTS EXPOSED AND PLATED (WHEN NOT UNDER CONSTRUCTION) UNTIL THE FIBER PULL IS COMPLETED. ONCE THE PULL IS COMPLETED, INSTALL SPLIT DUCT ON EXPOSED ROUTE AND ENCASE IN CONCRETE. ALL RESTORATION SHOULD BE IN COMPLIANCE WITH CDOT RESTORATION GUIDELINES. (SEE SHEET 5 FOR FURTHER DETAIL.)




DRAWING SCALE:
AS NOTED

ENGINEER:



2649 GARDNER RD
BROADVIEW, IL 60155
OFFICE 630.572.9999
FAX 630.572.9998

OWNER:



930 NATIONAL PKWY.
SCHAUMBURG, IL 60173
OFFICE 847.592.3000

DEVELOPER:



1351 E. IRVING PARK RD.
ITASCA, IL 60143
OFFICE 847.463.5950
FAX 630.250.1353

TITLE:
OUTSIDE PLANT FIBER
OPTIC BUILD

AT&T DEARBORN
(NODE #05)

405 E GRAND AVE
CHICAGO, IL 60611

OUC
NUMBER: 2019-87535

PROJECT
NUMBER: DASC-1783-003-U05R

DRAWN BY: CJ
DATE DRAWN: 08/21/17

NO.	DATE	DESCRIPTION
	07/08/19	FOR CONSTRUCTION
11	06/20/19	MOT
10	06/05/19	MOT
9	05/15/19	MOT
8	04/15/19	RESUBMITTAL
	08/21/17	PERMIT

SHEET NUMBER
18
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John Burns - Gamma Survey Results

Survey Equipment

Location:	E Grand Ave. & N McClurg Ct.
CDPH CDOT#	CDOT1228062
Ludlum 221 S/N:	172039
Shielded Cutoff Short Cord:	6,620 cpm
Shielded Cutoff Long Cord:	6,288 cpm
Shielded Background (Short cord):	2,727 cpm
Personell:	J. Nagle
Date of Screening:	4/28/20 - 5/5/20

Location	Depth (inches)	Readings (cpm)	Date Surveyed	
Sidewalk 1A*	0-12	Concrete/gravel	4/28/2020	
	12-30	2,058		
	30-48	4,793		
	48-66	4,786		
	66-84	4,915		
	84-102	5,018		
Sidewalk 2A*	0-12	Concrete/gravel		
	12-30	3,390		
	30-48	4,836		
	48-66	3,737		
Sidewalk 3A*	0-12	Concrete/gravel		
	12-30	3,588		
	30-48	4,101		
	48-66	2,715		
Sidewalk 4A*	0-12	Concrete/gravel		
	12-30	3,797		
	30-48	5,311		
	48-66	1,987		
	66-84	2,591		
	84-102	2,064		
	102-108	2,510		
1	0-18	Concrete		4/30/2020
	18-36	3,061		
2	0-18	Concrete		
	18-36	2,938		
3	0-18	Concrete		
	18-36	2,138		
4	0-18	Concrete		
	18-36	3,410		
5	0-18	Concrete	5/4/2020	
	18-36	3,864		
6	0-18	Concrete		
	18-36	2,910		
7	0-18	Concrete	5/5/2020	
	18-36	2,050		
8	0-18	Concrete		
	18-36	2,168		
9	0-18	Concrete		
	18-36	1,712		
10	0-18	Concrete		
	18-36	2,004		

Notes: * - Long Cord (cutoff 6,288 cpm shielded)