



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

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

959705

August 17, 2020

Mr. Chris Hanlon
Meade, Inc.
625 Willowbrook Center Parkway
Willowbrook, IL 60527

RE: Streeterville Thorium Monitoring Results
CDOT Permit Nos.: CDOT1274529
Permit Addresses: 155-210 E. Ontario St., 155-210 E. Ohio St., and 520-659 N. St. Clair St.
AECOM Project No. 60586768.400

Dear Mr. Hanlon:

Pursuant to conditions specified in the Streeterville right-of-way (ROW) form (attached), issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above excavations. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance between August 5 and 11, 2020 for trench excavations required for the installation of conduit. The trench excavation primarily consisted of 3-foot wide trench excavations between 2.5 and 3-feet in depth. In addition, the field work included three sidewalk pit excavations for horizontal boring and a 5 by 5-foot excavation for the installation of a manhole in the sidewalk near the southeast corner of N. St. Clair and E. Ontario Streets. Locations of the excavations are shown on the attached annotated drawings.

The USEPA removal action level for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Field gamma measurements of the fill were made at 18-inch vertical intervals, or less, until the final depth of excavation was reached. Concrete and fill from the excavations was direct loaded into trucks for disposal and limestone gravel was utilized to backfill the excavations prior to restoration of the pavement. Gamma radiation count measurements for the project were recorded using Ludlum Model 2221 survey meters and shielded 2 x 2-inch NaI probes (Model 44-10). For the instruments used the gamma count thresholds indicative of the 7.1 pCi/g removal action level were 6,993 (S/N: 172039) counts per minute (cpm) and 6,110 (S/N: 176944) cpm shielded. Background field instrument counts collected in planters in the vicinity of the work areas ranged from 2,330 to 2,603 cpm shielded.

The monitoring did not indicate fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The horizontal boring excavation pits have been shown in green, while the trench locations have been highlighted in red on the attached drawings, which were extracted from the permit drawing package. The tabulated gamma count data is attached following the annotated drawings.

The tabulated gamma counts for the horizontal boring pits ranged from a minimum of 1,760 cpm to a maximum of 3,200 cpm. These were substantially less than the instrument cutoff of 6,110 cpm equivalent to the USEPA removal action level. Sections of the trench were assigned numbers on the drawings (red) that correspond to the tabulated gamma count data. The gamma count data for the trench excavations ranged from 1,950 cpm to a maximum of 3,806 cpm. Therefore, the gamma counts observed for the trench excavations were also substantially less than the instrument cutoff of 6,993 cpm, which is equivalent to the USEPA removal action level.

In summary, the gamma results within the excavated trenches and pit excavations did not exceed the instrument thresholds previously stated. 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. Copies of the CDPH form, annotated drawings and tabulated gamma results are included as attachments to this letter report. As part of the permit conditions, a PDF copy of the letter report is being forwarded to Terry Sheahan (CDPH) and Verneta Simon (USEPA) to fulfill the requirements of the CDPH.

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

Regards,



Eric Sulita, P.E.
Environmental Engineer III



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 FORMS



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): Adam Martinez Signature: Adam Martinez

Site Address and Work Location (Describe exact site location and attach map): N St Clair St, E Ohio St, and E Ontario St.

520-659 N St Clair St, 155-210 E Ohio St, and 155-210 E Ontario St.

Nature of Work: Installation of conduit, via open cut trench, and directional bore.

Company Name, Address, Phone No.: Meade Electric CO. 9550 W 55th St Ste A, Countryside IL, 60525-3641 (708) 588-2500

General / Prime Contractor Name, Address, Phone No.: Chris Hanlon (773)447-6627 Include subcontractor information if applicable

Safety Officer / Phone No.

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

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT1274529

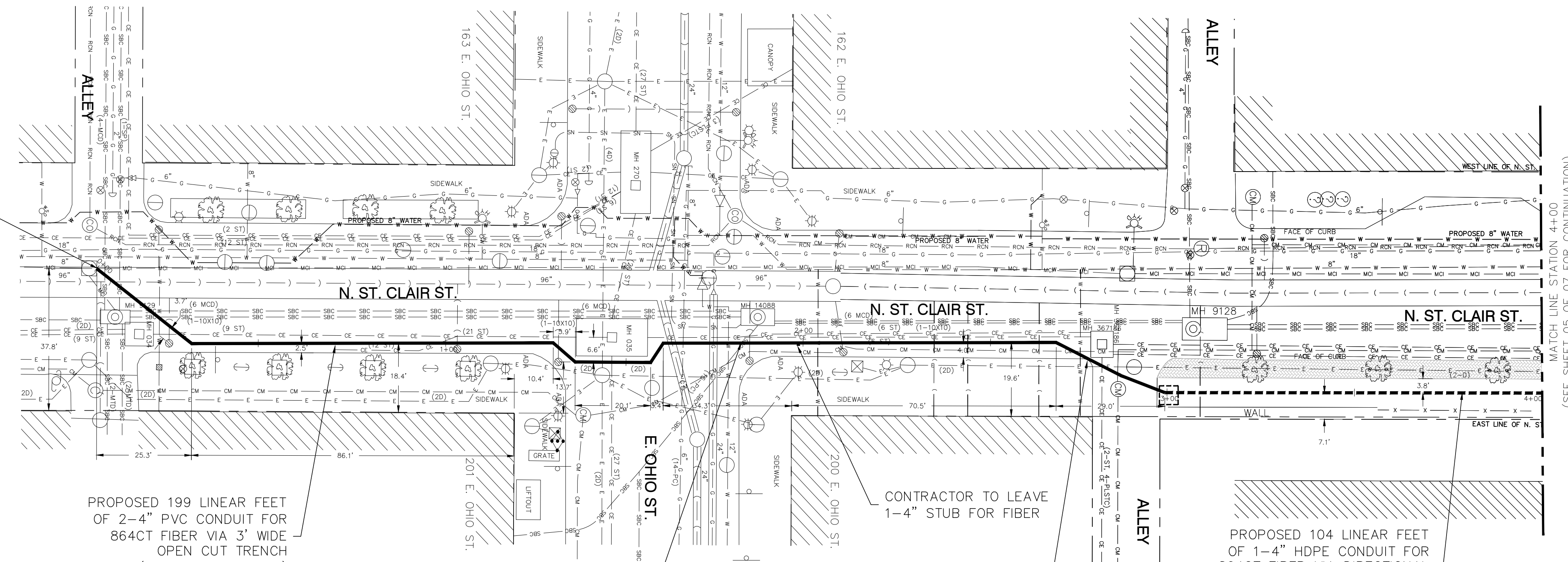
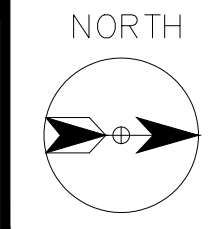
Today's Date: 8/3/20 Expected Start Date: 8/4/20 CDPH Approval / Date

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

CITY OF CHICAGO, ILLINOIS
COOK COUNTY

ISSUED FOR
CONSTRUCTION



STA: 0+00
BEGIN CONSTRUCTION OF 2-4" PVC
CONDUIT FOR FIBER. CONTRACTOR
TO CORE NORTH WALL OF THE
EXISTING MCI MANHOLE

PROPOSED 199 LINEAR FEET
OF 2-4" PVC CONDUIT FOR
864CT FIBER VIA 3' WIDE
OPEN CUT TRENCH
(SEE DETAILS SHEET)

ASAC# 21939 TO GO
UNDER AT&T DUCT
PACKAGE

PROJECT PLAN VIEW
Scale: 1" = 20'

CONTRACTOR TO LEAVE
1-4" STUB FOR FIBER

PROPOSED 104 LINEAR FEET
OF 1-4" HDPE CONDUIT FOR
864CT FIBER VIA DIRECTIONAL
BORE
(SEE DETAILS SHEET)

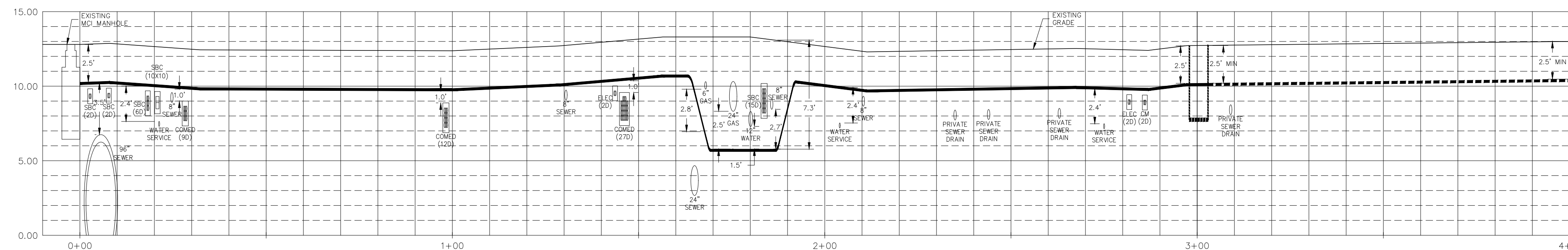
PROPOSED 101 LINEAR FEET
OF 1-4" PVC CONDUIT FOR
864CT FIBER VIA 3' WIDE
OPEN CUT TRENCH
(SEE DETAILS SHEET)

THE PROPOSED WORK CROSSED BELOW EXISTING 8 INCH SEWER AT STATION 1+85. 8 INCH SEWER LATERAL TO BE REPLACED FOR WIDTH OF TRENCH PLUS 2 FEET ON BOTH SIDES. CONTACT THE DWM SEWER EVALUATION SECTION TWO BUSINESS DAYS PRIOR TO CONSTRUCTION AT (312) 747-4680 TO COORDINATE THE WORK. IF SEWER DAMAGE OCCURS, THE CONTRACTOR AND/OR OWNER WILL BE RESPONSIBLE FOR THE COST OF REPAIRING, LINING OR REPLACING THE DAMAGED FACILITIES.

THE ASSUMED COVER OVER CATCH BASIN OUTLETS AND PRIVATE DRAINS ARE 3.0' AND 4.0', RESPECTIVELY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL PRIVATE DRAINS AND CATCH BASIN OUTLETS PRIOR TO CONSTRUCTION. UTILITY CROSSING UNDER SEWER MUST BE REPLACED.

IF THE BORING WILL TRAVERSE THE ASSUMED COVER FOR PRIVATE DRAINS IS 4.0', FOR UTILITY CROSSING WITHIN 6-INCHES OF THE SEWER PD LATERAL, IT MUST BE TELEVIEWED BEFORE/AFTER CONSTRUCTION. IF THE CLEARANCE IS 6-INCHES TO 1-FOOT, TELEVIEW AFTER CONSTRUCTION. ALL SEWERS MUST BE REPLACED/REPLACED/LINED, AS NEEDED. CONTACT DWM AT (312)747-4680 FOR ANY CONFLICTS OR REPAIR WORK.

COMED REQUESTS TO PROTECT ALL EXISTING COMED MANHOLES AND CONDUITS WHEN CROSSING, ADJACENT TO OR IN THE NEAR VICINITY BY DIGGING TEST HOLES TO ASSURE COMED FACILITIES ARE NOT DAMAGED, DURING THE DIRECTIONAL BORE OR EXCAVATION PROCESS, AND HAND DIG WHEN WITHIN 5 FEET OF CROSSING FACILITIES. IF FIELD CONDITIONS REQUIRE COMED ASSISTANCE, SUCH AS POLE BRACING, CONDUIT SUPPORTS AND/OR FRAME AND COVER ADJUSTMENTS, PLEASE CONTACT NEW BUSINESS @ 1-866-NEW-ELEC, WITH A MINIMUM (5) WEEK LEAD TIME.



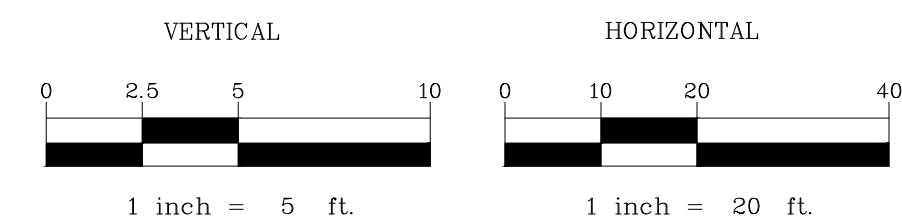
PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 5'

THE AT&T STRUCTURE ACCESS CENTER MUST BE CONTACTED 5 BUSINESS DAYS PRIOR TO START OF WORK @ (888)395-2722 PER ASAC#21939

LEGEND
 POSSIBLE LOCATION OF BORE PIT
CONTRACTOR TO FIELD VERIFY

NOTE: USE EXTREME
CAUTION WHEN DIGGING
NEAR EXISTING UTILITIES.

GAS FACILITIES SHOWN ON THIS DRAWING MAY INDICATE THE PRESENCE OF A GAS SERVICE OR OTHER GAS INFRASTRUCTURE. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AROUND THESE FACILITIES.



PROJECT: VZ-ST-1683

543 N ST CLAIR ST.
CHICAGO, ILLINOIS

EPF XXXXXX

CLARIFICATION NO. QUANTITY

MCI
MCI metro
ACCESS TRANSMISSION SERVICES LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

hbk
ENGINEERING, LLC
921 WEST VAN BUREN, SUITE 100
PHONE: (312) 482-9098 FAX: (312) 482-0231
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL
REGULATION, LIC. ENG. NO. 184-026286

DATE: 1-17-2020

ENGINEER: JWB

DRAWN BY: DWT, ABM

REVISIONS

DATE	DESCRIPTION	INITIAL
1/17/20	FOR OUC REVIEW	DWT
2/10/20	REV PER CTR	DWT
2/13/20	REV PER SBC	DWT
5/20/20	REV PER SEWER	DWT
2/24/20	REV PER COMED	DWT
5/20/20	IFC	DWT

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SCALE

HORIZONTAL: 1"=20'

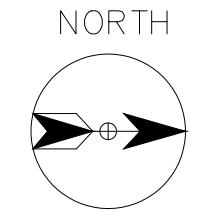
VERTICAL: 1"=5'

MP _____ TO MP _____

SHEET 4 OF 7

FILE: 18-0084, VZ-ST-1683

CITY OF CHICAGO, ILLINOIS
COOK COUNTY



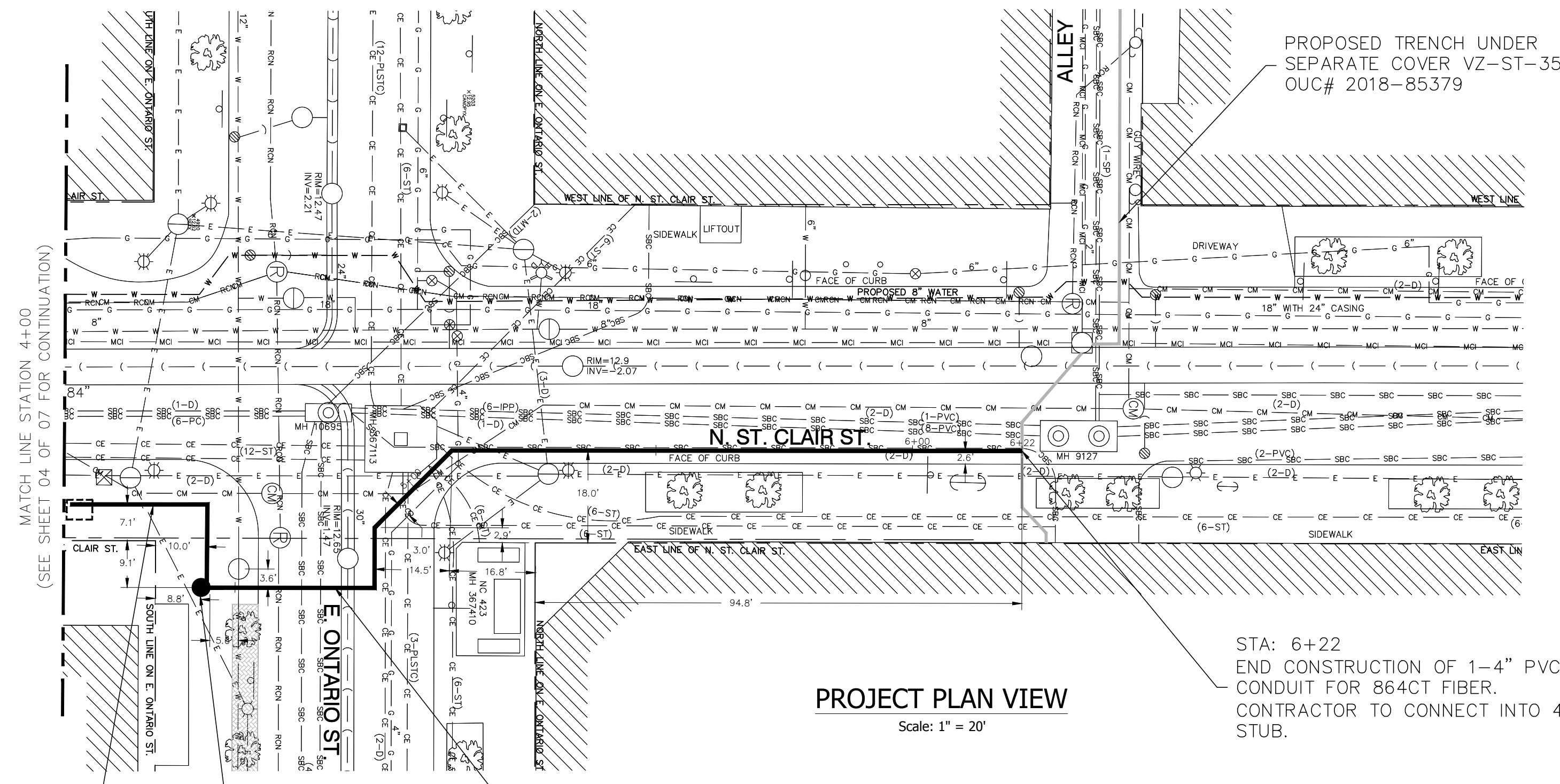
ISSUED FOR
CONSTRUCTION

PROJECT: VZ-ST-1683

543 N ST CLAIR ST.
CHICAGO, ILLINOIS

EFP XXXXX

CLARIFICATION NO. QUANTITY



COMED REQUESTS TO PROTECT ALL EXISTING COMED MANHOLES AND CONDUITS WHEN CROSSING, ADJACENT TO OR IN THE NEAR VICINITY BY DIGGING TEST HOLES TO ASSURE COMED FACILITIES ARE NOT DAMAGED, DURING THE DIRECTIONAL BORE OR EXCAVATION PROCESS, AND HAND DIG WHEN WITHIN 5 FEET OF CROSSING FACILITIES. IF FIELD CONDITIONS REQUIRE COMED ASSISTANCE, SUCH AS POLE BRACING, CONDUIT SUPPORTS AND/OR FRAME AND COVER ADJUSTMENTS, PLEASE CONTACT NEW BUSINESS @ 1-866-NEW-ELEC, WITH A MINIMUM (5) WEEK LEAD TIME.

THE AT&T STRUCTURE ACCESS CENTER MUST BE CONTACTED 5 BUSINESS DAYS PRIOR TO START OF WORK @ (888)395-2722 PER ASAC#21939

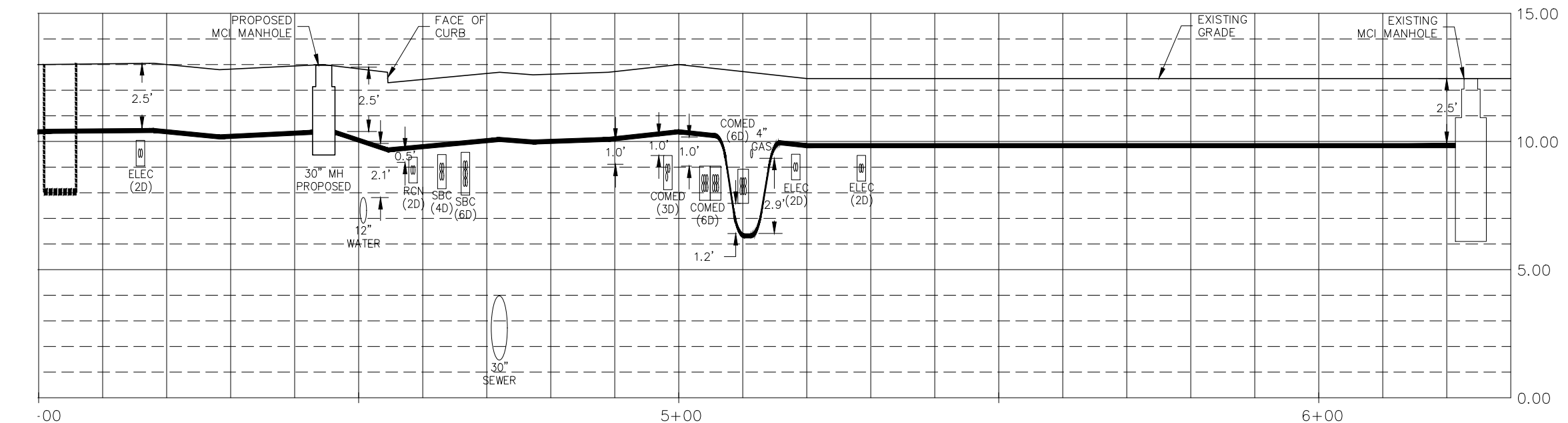
PROJECT PLAN VIEW
Scale: 1" = 20'

PROPOSED 41 LINEAR FEET OF 1-4" PVC CONDUIT FOR 864CT FIBER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

STATION: 4+45
PROPOSED 30" ROUND COMMUNICATIONS MANHOLE (SEE DETAILS SHEET)

PROPOSED 177 LINEAR FEET OF 1-4" PVC CONDUIT FOR 864CT FIBER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

STA: 6+22
END CONSTRUCTION OF 1-4" PVC CONDUIT FOR 864CT FIBER. CONTRACTOR TO CONNECT INTO 4" STUB.

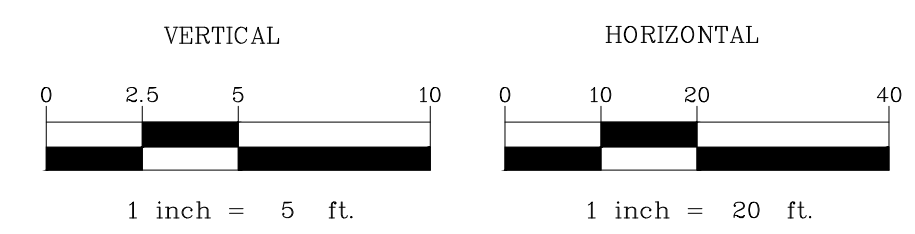


PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 5'

LEGEND
□ POSSIBLE LOCATION OF BORE PIT CONTRACTOR TO FIELD VERIFY

NOTE: USE EXTREME CAUTION WHEN DIGGING NEAR EXISTING UTILITIES.

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OWNER:
MCI
MCI metro
ACCESS TRANSMISSION SERVICES LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

ENGINEER:
hbh
ENGINEERING
HBK ENGINEERING, LLC
921 WEST VAN BUREN, SUITE 100
CHICAGO, IL 60607
PHONE: (312) 442-9006 FAX: (312) 442-0031
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LIC. ENG. NO. 046-002606

DATE: 1-17-2020

ENGINEER: JWb

DRAWN BY: DWT, ABM

REVISIONS

DATE	DESCRIPTION	INITIAL
1/17/20	FOR OUC REVIEW	DWT
2/10/20	REV PER CTR	DWT
2/13/20	REV PER SBC	DWT
2/24/20	REV PER COMED	DWT
5/20/20	IFC	DWT

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SCALE
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VERTICAL: 1"=5'
MP _____ TO MP _____
SHEET 5 OF 7
FILE: 18-0084, VZ-ST-1683

**ANNOTATED DRAWINGS AND
TABULATED GAMMA RESULTS**

CITY OF CHICAGO, ILLINOIS COOK COUNTY

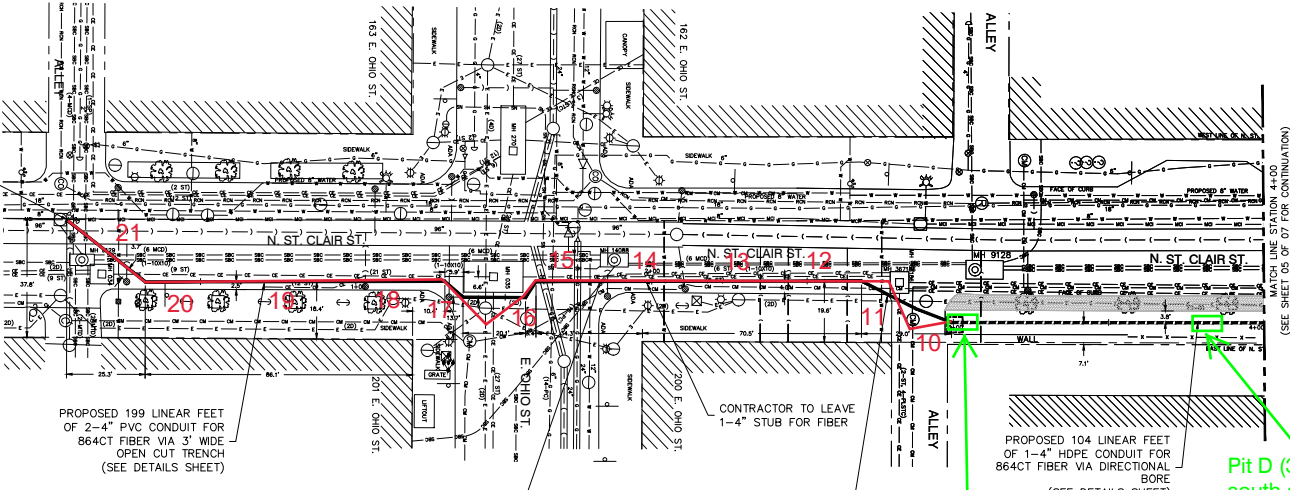
ISSUED FOR
CONSTRUCTION



PROJECT: VZ-ST-1683

543 N ST CLAIR ST.
CHICAGO, ILLINOIS
EFP XXXXXX

CLARIFICATION NO.	QUANTITY



STA: 0+00
BEGIN CONSTRUCTION OF 2-4" PVC CONDUIT FOR FIBER. CONTRACTOR TO CORE NORTH WALL OF THE EXISTING MCI MANHOLE

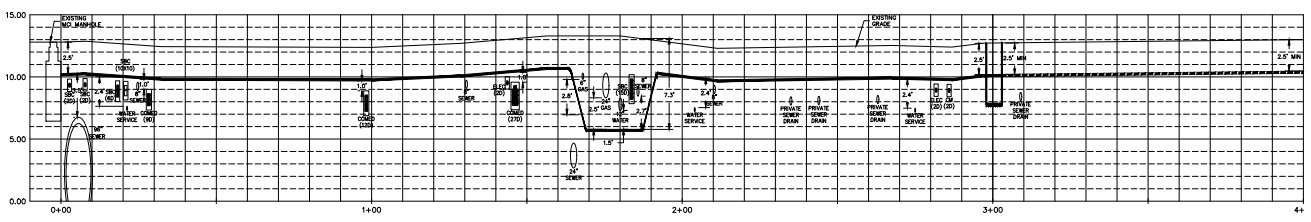
MATCH LINE STATION 4+00 (SEE SHEET 05 OF 07 FOR CONTINUATION)

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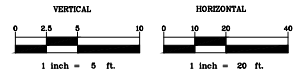


PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 5'

LEGEND
 POSSIBLE LOCATION OF BORE PIT
 CONTRACTOR TO FIELD VERIFY

NOTE: USE EXTREME CAUTION WHEN DIGGING NEAR EXISTING UTILITIES.

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Mcimetro SERVICES LLC
ACCESS TRANSMISSION SERVICES LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

HBK ENGINEERING, LLC
501 W. WYOMING AVE. SUITE 400
CHICAGO, IL 60601
PH: (312) 666-7000
WWW.HBKENGINEERING.COM

DATE: 1-17-2020

ENGINEER: JWB
DRAWN BY: DWT, ABM

REVISIONS

DATE	DESCRIPTION	INITIAL
1/17/20	FOR OUC REVIEW	DWT
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5/20/20	REV PER SEWER	DWT
2/24/20	REV PER COMED	DWT
5/20/20	IFC	DWT

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SCALE

HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

MP _____ TO MP _____
SHEET 4 OF 7

FILE: 18-0084, VZ-ST-1683

CITY OF CHICAGO, ILLINOIS
COOK COUNTY

NORTH

ISSUED FOR
CONSTRUCTION

PROJECT: VZ-ST-1683

543 N ST CLAIR ST.
CHICAGO, ILLINOIS
EFP XXXXXX

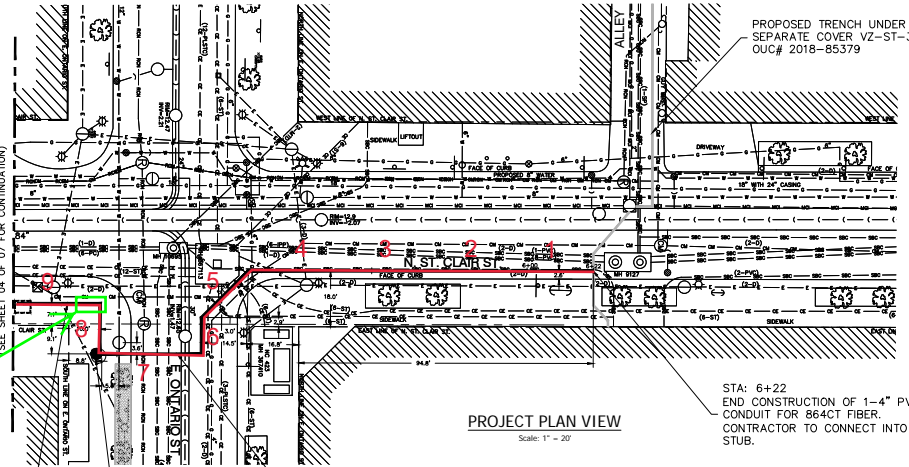
CLARIFICATION NO. QUANTITY

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Pit A (3x10 ft) - 10 ft south of E Ontario curb and 6 ft west of N St Clair curb



PROPOSED 41 LINEAR FEET OF 1-4" PVC CONDUIT FOR 864CT FIBER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

STATION: 4+45 PROPOSED 30" ROUND COMMUNICATIONS MANHOLE (SEE DETAILS SHEET)

PROPOSED 177 LINEAR FEET OF 1-4" PVC CONDUIT FOR 864CT FIBER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

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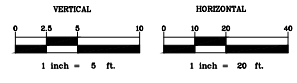
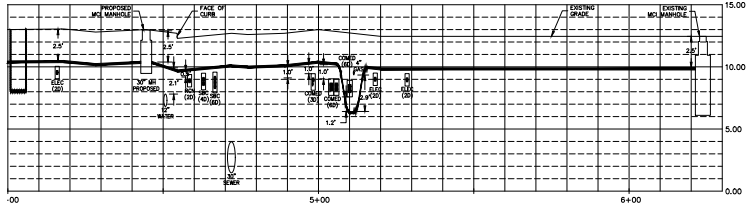
PROPOSED TRENCH UNDER SEPARATE COVER VZ-ST-354 OUC# 2018-85379

MATCH LINE STATION 4+00 (SEE SHEET 04 OF 07 FOR CONTINUATION)

LEGEND
[] POSSIBLE LOCATION OF BORE PIT CONTRACTOR TO FIELD VERIFY.

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OWNER:
MCI MCI metro SERVICES LLC
ACCESS TRANSMISSION SERVICES LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

DRAWN BY:
hbk HIRK ENGINEERING, LLC
501 WEST OAKLAND BLVD., SUITE 200
CHICAGO, IL 60606
PH: 312.533.8888
WWW.HIRKENGINEERING.COM

DATE: 1-17-2020
ENGINEER: JWBJ
DRAWN BY: DWT, ABM

REVISIONS		
DATE	DESCRIPTION	INITIAL
1/17/20	FOR OUC REVIEW	DWT
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SCALE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'
MP TO MP
SHEET 5 OF 7
FILE: 18-0084, VZ-ST-1683

Meade - Gamma Survey Results

Location:	N. St. Clair St. between E. Grand and E. Erie Streets
CDOT#	CDOT1274529
Ludlum 2221 S/N:	172039 & 176944
Shielded Cutoff:	6,933 and 6,110 cpm
Shielded Background:	2,330 to 2,603 cpm
Personnel:	E. Sulita & S. Kornder
Date of Screening:	August 6-11, 2020

Location	Depth (inches)	Readings (cpm)	Date Surveyed
Sidewalk Pit-A*	0-6	Concrete	8/6/2020
	6-18	2,300	
	18-30	2,670	
	30-40	2,360	
	40	3,150	
Sidewalk Pit-B*	0-6	Concrete	
	6-18	1,760	
	completed as #8 below		
Sidewalk Pit-C*	0-6	Concrete	
	6-18	2,670	
	18-30	2,400	
	30-40	1,890	
	40	2,900	
Sidewalk Pit-D*	0-6	Concrete	
	6-18	2,330	
	18-30	2,620	
	30-42	1,890	
	42-54	3,200	
	54	2,600	
Trench Sections			
1	0-12	Concrete	8/7/2020
	12-30	2,391	
	30	2,943	
2	0-12	Concrete	
	12-30	2,315	
	30	3,806	
3	0-12	Concrete	
	12-30	2,510	
	30	3,170	
4	0-12	Concrete	
	12-30	3,346	
	30	2,150	
5	0-12	Concrete	
	12-24	2,540	
	24	2,090	
6	0-12	Concrete	
	12-24	2,480	
	24	2,142	
7	0-12	Concrete	
	12-24	2,230	
	24	2,890	

Location	Depth (inches)	Max. Gamma Readings (cpm)	Date Surveyed
8	0-6	Concrete	8/7/2020
	6-24	2,040	
	24-36	3,240	
	36	3,141	
8-Manhole	0-8	Concrete	
	8-26	2,173	
	26-44	2,759	
	44	2,830	
9	0-6	Concrete	8/8/2020
	6-24	2,134	
	24-36	2,760	
10	0-18	Concrete	
	18-36	2,470	
	36	3,643	
11	0-8	Concrete	
	8-26	1,950	
	26-30	2,355	
12	0-12	Concrete	
	12-30	2,683	
	30	3,610	
13	0-12	Concrete	
	12-30	2,733	
	30	2,865	
14	0-12	Concrete	
	12-30	2,785	
	30	2,710	
15	0-16	Concrete	
	16-28	2,137	
	28	2,085	
16	0-16	Concrete	
	16-32	3,210	
	32	2,583	
17	0-16	Concrete	8/9/2020
	16-30	2,600	
	30	2,137	
18	0-16	Concrete	
	16-24	2,813	
	24	2,600	
19	0-8	Asphalt over Pavers	
	8-24	2,945	
	24	2,959	
20	0-8	Asphalt over Pavers	
	8-26	3,326	
	26-30	3,225	
21	0-10	Asphalt over Pavers	8/11/2020
	10-28	2,810	
	28-36	2,832	

Notes: * - Cutoff 6,110 cpm shielded