



Village of Hinsdale
19 E. Chicago Avenue
Hinsdale, IL 60521-3489
(630)789-7000

Village Website: www.villageofhinsdale.org

PUBLIC SERVICES UTILITY PERMIT APPLICATION - Permit Fee of \$100.00

Date of Application: 12/13/2022

Permit No: CROWN C-0085

Permit Expiration Date: 5/31/23

Utility Company Information:

Company Name: Crown Castle
Address: 3025 Highland Pkwy, Suite 400
City, State, Zip: Downers Grove, IL 60515
Contact Person: Steve Soto
Phone Number: 630-328-3578
Email Address: Steve.Soto@crowncastle.com
Cell Number: 630-328-3578
Project/Work Order Number: PH16 - 20 E Maple St Hinsdale

Contractor Information:

Company Name: Electric Conduit Construction Company
Address: 816 Hicks Drive
City, State, Zip: Elburn, IL 60119
Contact Person: Steve Rosato
Phone Number: 630-387-7819
Email Address: srosato@electricconduitconstruction.com
Cell Number: 224-239-4334

PROJECT LOCATION: Along Maple St from Washington St to Garfield St (20 E Maple St - Public Library)

Description of work covered under this permit: Installation of approximately 41 linear feet of cable in innerduct via open cut trench, installation of 1 handhole, 1 handhole marker post, and 1 2" building core with linkseal.

Cost of construction: \$8,000

Start Date: 1/13/2023

Completion Date: 3/31/2023

Site Plan/Details/Specifications (3 sets) included with application?

☒ YES

☐ NO

Currently registered as a Utility Contractor with the Village of Hinsdale? *contractor TBD*

☐ YES

☐ NO

Engineer Estimate of Cost included with application?

☐ YES

☐ NO

Type of Utility:

☐ ComEd

☐ Nicor

☐ Comcast

☐ Water

☐ Sewer

☒ Communications:

☒ Fiber Optic

☐ Wireless

☐ Other:

Applicant Information:

Print Name: Maria Gutierrez

Phone Number: 312-253-1800

Company: HBK Engineering, obo Crown Castle

Email Address: Maria.Gutierrez@HBKEngineering.com

Signature: Maria Gutierrez

Digitally signed by Maria Gutierrez
Date: 2023.01.11 11:57:26 -0600

Date: 12/13/2022

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION IN EFFECT ON THE DATE OF PERMIT APPLICATION OF THE FOLLOWING: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION & SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, AND THE VILLAGE OF HINSDALE SUBDIVISION ORDINANCES (Ord. 02007-73, 11-6-2007) AND ENGINEERING STANDARDS.

Village Use Only

Permit Approved:

☒ YES

☐ NO

Conditions for Approval/Reasons for Denial: *RESTORE ALL DISTURBED AREAS WITHIN 14 DAYS OF COMPLETION. NOTIFY ALL LOCAL RESIDENTS & VILLAGE, 48 HOURS PRIOR TO START.*

Approved By: Maria Gutierrez

Date: 12/13/2022

1-27-23

MSA MUNICIPAL SERVICES ASSOCIATES, INC.

January 19, 2023

Mr. George Peluso
Director of Public Services and Engineering
Village of Hinsdale
19 East Chicago Avenue
Hinsdale, Illinois 60521

Dear George:

At the direction of the Village of Hinsdale, Municipal Services Associates, Inc. (MSA) has reviewed the plans submitted by Crown Castle ("Crown Castle") for installation of fiber optic cable conduit fiber optic cable, and tracer wire in the Village of Hinsdale Rights-of-Way along East Maple Street, with initiation at the southeast corner of East Maple Street and North Garfield Street, and termination at the northwest corner of the Hinsdale Public Library located at 20 East Maple Street.

The fiber optic cable segments will begin underground at the southeast corner of North Garfield Street East Maple Street. The fiber optic cable will be installed in existing innerduct along with a tracer wire. The innerduct starts underground from a manhole located at the southeast corner of North Garfield Street and East Maple Street, then extending from that point west along the south Right-of-Way to a proposed handhole in the Right-of-Way in front of the Hinsdale Public Library. New innerduct, conduit, fiber optic cabling, and tracer wire will be extended south from the handhole to the northeast corner of the library building. Crown Castle intends to utilize open cut trenching for the segment between the proposed handhole and the library wall. A 2" core will be excavated from the library wall in order to accommodate the fiber optic cable innerduct. The distance of the new innerduct is 41' (12.50 meters). The distance of fiber optic cabling and tracer wire is 461' (140.55 meters) from North Garfield Street to the library entrance. No aerial plant is proposed.

The project and the recommendations of MSA are described below.

Existing Facilities: The project will utilize underground Right-of-Way by way of a combination of open cut trenching and underground boring. The conduit will be located adjacent to existing underground electric utilities along East Maple Street. The plans do not identify aerial plant located along East Maple Street, however, aerial power, telephone, and cable television plant is installed in the Right-of-Way space along the north side of Maple Street. The proposed project will not interfere with the existing aerial plant.

3 Golf Center, # 311 • Hoffman Estates, Illinois 60169
TEL-847-882-7773 FAX-847-310-9275 MOBILE-847-867-6117
E-Mail: MSASchapman@cs.com
www.msatelecom.com

The west end of the proposed fiber pull project will connect with an existing segment of Crown Castle innerduct that extends east and west along the south Right-of-Way along Maple Street. The innerduct extends past Washington Street to Lincoln Street to the west and along the south Right-of-Way beneath the sidewalk in front of the Hinsdale Public Library and Hinsdale Village Hall. The east segment of the innerduct ends at the intersection of the southeast corner East Maple Street and Garfield Street. The east end of the project will end at an existing Crown Castle manhole. The manhole is adjacent to the intersection of two (2) sidewalks on the southeast corner of the intersection.

Crown Castle stated in the plans that it will be the responsibility of the project's General Contractor to mark and identify specific utilities in the Rights-of-Way along the project route. Electrical, cable, and communications lines are typically buried at a depth of 48" (1.22 meters). The proposed Crown Castle conduit will be buried at a depth of 42" (1.069 meters).

Currently, the project is planned as a stand-alone fiber optic conduit and tracer wire installation. The proposed installation is primarily to be used as an "Enterprise" project for the Hinsdale Public Library. Presently, it is not proposed for use as a small wireless facility backhaul network, or for a macrocell backhaul network, therefore, it is not subject to the FCC 2014 Authorization Order and is not subject to a "Shot Clock" period of review.

Proposed Project and Description

Crown Castle proposes to install a linear run of fiber optic cable, and tracer wire from a point beginning 5' (1.52 meters) east of the southeast corner of the intersection of East Maple Street and Garfield Street. An existing manhole installed on the southeast side of the intersection will serve as the beginning point for the conduit and tracer wire installation. The fiber optic cable and tracer wire will be installed in existing innerduct for a distance of 465' (141.77 meters) to the west, to a point 40' (12.20 meters) east of the intersection of East Maple Street and Washington Street. This point is in the south Right-of-Way along the south side of East Maple Street in front of the north wall of the Hinsdale Public Library.

Crown Castle proposes installation of a handhole with the dimensions of 36" (.916 meters) in height x 60" in width (1.53 meters) x 36" (.916 meters) in depth as an intersection point for the fiber optic cable and tracer wire run along East Maple Street. From the location of the handhole, the innerduct line will run in a southerly direction for a distance of 41' (12.50 meters) beneath the sidewalk on the south side of East Maple Street, south to the library wall on the northwest side of the building. The entry point will be accomplished by means of a core into the library wall. Crown Castle will utilize a single 2" High-Density Polyethylene (HDPE) innerduct pipe to carry the tracer wire and the fiber optic cable.

The proposed project requires the closing of sidewalks. Crown Castle has included proposed signage for the redirection of pedestrian traffic during the project. The project also will entail construction under the intersections of the driveway to Hinsdale Village Hall, Memorial Hall, and the Hinsdale Public Library, and the intersection of East Maple Street and Garfield Street.

Road Work, Road Construction Ahead, and worker silhouette signs will be posted along the conduit route as traffic control measures along the streets and at intersections. Crown Castle proposes to use cones, barricades, drums, and where appropriate, barrier walls, to direct traffic where lanes will be blocked by construction equipment. Sidewalk Closed signs should be placed where construction will necessitate the excavation of sidewalks.

Property restoration will include replacement of grass parkways with sod. Concrete and asphalt restorations will be performed to meet Village of Hinsdale standards for concrete pavements, pavements with an aggregate base and bituminous surfaces, or concrete pavements with bituminous overlays.

Project Purpose

The main purpose of Crown Castle's conduit installation project is to provide the housing for fiber optic cables that will connect its fiber network with Hinsdale Public Library. The fiber optic cable will also pass Hinsdale Village Hall and Memorial Hall and is in a proximate location in the event that fiber cable extensions are requested by the Village for these facilities.

Grounding: No grounding for the conduit pipe was proposed by Crown Castle and grounding of the conduit, fiber optic lines, and tracer wire is not necessary.

Requested Information of Applicant

After review of the plans by MSA, no further information was required to be provided by the applicant. Information concerning restoration of the Right-of-Way, a traffic control plan, and trenching specifications were provided by Crown Castle within its plan documents. Crown Castle has indicated that specific locations of utilities buried in the Rights-of-Way will be the responsibility of the General Contractor for the project. The identification of the contractor has not yet been identified. MSA recommends that the Village notify and require the contractor, when contractor information has been provided to the Village, to identify such utilities and provide the Village with plans showing the location of the proposed conduit along with that of the utilities, and to specify any relocation of such utilities that may be necessitated by the project.

FCC OET Bulletin 65 Appendix A Checklist: The proposed project does not include erection of an antenna array or construction of a cell tower or other similar structure. Therefore, the requirements for RF exposure and safety under FCC Office of Engineering and Technology (OET) Bulletin 65 Appendix A do not apply to the proposed project.

Structural Evaluation: No structural evaluation was required for this project as the proposed activities do not involve installation of the conduit on a pole, or other wireless support structure to the extent that such installation would necessitate an analysis of wind and ice on the installation, or resistance from wind shear.

Radio Frequency Interference Issues: The proposed project does not include the installation of radios or antennas that would emit frequencies that would possibly interfere with radio frequencies used by the Village. Therefore, no statement of “Good faith efforts” to avoid radio frequency interference with Village radio frequencies was requested for the proposed project.

Section 6409(a) - Spectrum Act - Applicability:

MSA has reviewed the Crown Castle application for the following scope of work along East Maple Street from east of Washington Street to Garfield Street within the Village of Hinsdale stated earlier in this report:

- Installation of one (1) handhole in the south Right-of-Way along East Maple Street.
- Installation of 465' (1823.48 meters) of 48-strand count fiber optic cable, and tracer wire capable of carrying strands of fiber optic cable installed in existing innerduct along East Maple Street that carries Crown Castle’s fiber optic network.
- Installation of 41' (12.50 meters) of 2" innerduct, 48-strand count fiber optic cable, and tracer wire from a handhole installed 40' (12.20 meters) east of the southeast corner of Washington Street and East Maple Street, to wall of the Hinsdale Public Library near the northwest corner of the building.

MSA has reviewed the proposed project and plans in light of Section 6409(a), also known as the “Spectrum Act,” contained within the Middle Class Tax Relief and Job Creation Act of 2012. Section 6409(a), codified at 47 CFR §1.6100, and examined whether the proposed project is subject to the requirements of the Spectrum Act.

As stated earlier in this report, based on the proposed Scope of Work, the proposed project does not involve a wireless facilities operator, and, it does not constitute a Wireless Facility Modification as described within 47 CFR §1.6100, nor is the project proposed to involve a Wireless Facility as defined by the FCC. The proposed project does not involve the installation of an antenna array, small cell, base station, or collocation.

Although the proposed project does involve the installation of transmission equipment, (i.e., fiber optic cable and innerduct) the project does not include collocation, removal, or replacement of transmission equipment on an existing tower or base station(1).

Having reviewed the current project plans for this site, MSA's opinions as the Village's technology expert are as follows:

1. The instant project is not a "collocation of new transmission equipment" within the meaning of 47 CFR §1.6100(b)(2); and
2. The instant project does not include an "Eligible Support Structure" as defined by the Spectrum Act, and while the proposed project does incorporate the use of "Transmission Equipment" defined by the Act, it does not propose connection to an Eligible Support Structure in a manner that would place the project under the purview of the Act.

For the reasons discussed above and based on these conclusions, it is MSA's recommendation that the Village recognizes that the Spectrum Act rules indicate that the proposed project *is not* subject to the timeframes, requirements and conditions of the Spectrum Act. Therefore, the Village may either deny or approve the proposed project.

Recommendations

MSA recommends that the Village allow Crown Castle to proceed with the proposed project once the Village has been notified of the identity and contact information of its contractor. Further, the project should not proceed until the Contractor has provided any required information and security that are required per Village ordinance or policy to the Village.

Additionally, MSA recommends that Crown Castle and future installers of innerduct, conduit pipes and fiber optic cables include information on their plans and on the permit application that provide customer information, including contact name, telephone number, address, e-mail information, and where applicable, a website address. If the customer is different from the user, then similar information should also be provided for the intended user of the fiber optic cables. A brief statement of the purpose of the project should also be included on the project plans and permit application.

The availability of an additional fiber optic network will provide additional telecommunications resources and opportunities for Hinsdale Public Library. Of essential importance, the extension of fiber optic cable will enable the Library to conduct more efficient operations, improve program offerings, and expand its Internet resources.

(1) 47 CFR §1.6100(b)(3)(i-iii). "(3) *Eligible Facilities Request*. Any request for modification of an existing tower or base station that does not substantially change the physical dimensions of each such tower or base station, involving: (i) collocation of new transmission equipment; (ii) removal of transmission equipment; or (iii) replacement of transmission equipment."

5G Applicability: The proposed project will be a private network that will transmit data to Hinsdale Public Library. Based on the purpose of the project, MSA opines that the proposed project will not be used for a 5G network for small wireless facilities at this time, although the proposed fiber optic cables could serve as a portion of the backbone of a cellular network. As no information was provided regarding end user equipment, MSA is also unable to opine on the level of bandwidth frequencies that the network will utilize.

Permit Compliance: Contingent upon receiving its permit to proceed with construction, MSA recommends that Crown Castle or its contractor provide a statement indicating that it will comply with the insurance and security fund requirements found in the Village's Right-of-Way Ordinance (Ord. O2007-73, enacted November 6, 2007). If Crown Castle or the contractor elects to self-insure, it should provide evidence of its financial ability to self insure the insurance coverages and limits requirements of the ROW ordinance.

In addition, if it has not already done so, Crown Castle should indicate if any JULIE location marking has been conducted for installation of the underground conduit piping and its proposed handholes, along with the identity of the company that has performed the JULIE location marking. If marking has not yet been performed, Crown Castle should indicate when locate marking will be performed by the general contractor.

MSA recommends that the Village work with Crown Castle and its contractor to assure compliance with the Right-of-Way Ordinance, with special emphasis on property restoration that will result from the excavation of the handholes and trenching beneath the parkways, sidewalks, and streets, and that the contractor identifies utilities and provide the Village with plans showing the location of the proposed conduit along with that of the utilities, and to specify any relocation of such utilities that may be necessitated by the project.

Should the Village have any questions concerning this report, or if any additional background is needed, please contact me at your first opportunity.

Sincerely,

Stuart Chapman

Stuart Chapman, President
Municipal Services Associates, Inc.

cc: Kathleen Gargano, Village Manager, Village of Hinsdale
George Peluso, Director of Public Services and Engineering, Village of Hinsdale
Rob McGinnis, MCP, Director of Community Development, Building
Commissioner, Village of Hinsdale
Al Diaz, Assistant Village Engineer, Village of Hinsdale

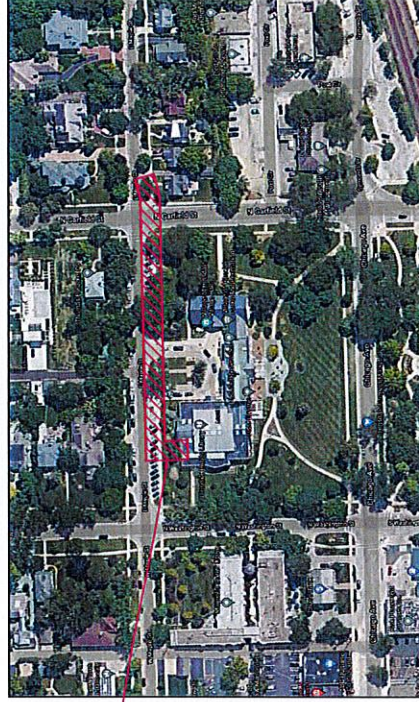
DUPAGE COUNTY
HINSDALE, ILLINOIS

PROJECT MANAGER
JENNIFER ENBERG



PROPOSED FIBER OPTIC CONDUIT
INSTALLATION-CONNECTION
20 E MAPLE ST HINSDALE
PUBLIC LIBRARY, HINSDALE, ILLINOIS

SITE LOCATION MAP



PROJECT LOCATION

PUBLIC UTILITY NOTE:

CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, SEWER AND WATER, ETC.) PRIOR TO COMMENCING ANY CONSTRUCTION.

THESE COMPANIES WILL LOCATE ON THE GROUND THE EXISTING UTILITIES, COORDINATE WITH THE UNDERGROUND PIPING, ETC., ADJOINING & CROSSING PROPOSED CONSTRUCTION.



NOTE:
ONLY PRINTS WITH A BOUND MAIL ARE TO BE USED DURING CONSTRUCTION AND
CONSIDERED OFFICIAL COPIES. THEIR PLANS ARE NOT TRANSFERABLE.



ENGINEER
CRC-ST-985

NOTES

INDEX TO SHEETS

SHEET	DESCRIPTION
1	TITLE, PROJECT BENCHMARK
2	GENERAL NOTES
3	LEGEND
4	PROJECT PLAN
5A	PROJECT PULL PLAN
6	CONNECTION DETAILS
7	TRAFFIC CONTROL PLAN

ENGINEER'S ESTIMATE OF MATERIALS

QUANTITY	ITEM
41	LINEAR FEET OF 1/2" HDPE INNERDUCTS
41	LINEAR FEET OF 1/2" HDPE FOC
405	LINEAR FEET OF 1/2" HDPE FOC PULL PLAN
506	LINEAR FEET OF 12 AWG TRACER WIRE
1	36" DIA. 12" COMMUNICATION HOLE
1	HAND-DRILL MARKER POST
1	2" BUILDING CORE WITH LINKSEAL

METHODS OF CONSTRUCTION - PRIVATE REVIEW

QUANTITY	ITEM
41	LINEAR FEET OF OPEN CUT TRENCH
0	LINEAR FEET OF DIRECTIONAL BORE

hbk
ENGINEERING

931 WEST VAN BUREN STREET, SUITE 100
CHICAGO, ILLINOIS 60607
STATE OF ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION
LICENSE NO. 11460188

UNDESIGNED/NOTED

CROWN
CASTLE

CONTRACTOR:

TITLE:
FIBER OPTIC CONDUIT
INSTALLATION-CONNECTION
20 E MAPLE ST HINSDALE
PUBLIC LIBRARY, HINSDALE, ILLINOIS

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	12/08/2022	FOR REVIEW	JAG
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

DESIGNED BY: JENNIFER ENBERG

JAG CJP SE

PROJECT NUMBER: 22-0124

FILE NAME: CRC-ST-985

DRAWN BY: N/A

DATE DRAWN: 11/21/2022

SCALE: N.T.S.

SHEET: 1 OF 7

ENGINEER:

hbk
ENGINEERING

931 WEST VAN BUREN STREET, SUITE 100
CHICAGO, ILLINOIS 60607
PHONE: (312) 620-7070 FAX: (312) 620-7071
STATE OF ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION
LICENSE NO. 11460188

PROFESSIONAL ENGINEER
JENNIFER ENBERG
12/08/2022



DEVELOPER:
CROWN CASTLE
3101E HOTO AND PAVY, SUITE 400
DOWNS GROVE, IL 60015
(630) 378-4578

CONTRACTOR:
Hbk ENGINEERING, LLC
JENNIFER EKLBERG
921 WEST VAN BUREN STREET
SUITE 100
CHICAGO, ILLINOIS 60607
(312) 432-0076

SECTION 1.0 SCOPE OF WORK

1.01 INSTALLATION OF 2-2.00" HDPE CONDUIT FOR CROWN CASTLE
SEE PLANS FOR EXACT LOCATION, LENGTHS, QUANTITIES, AND DIMENSIONS
OF PROPOSED IMPROVEMENTS.

SECTION 2.0 GENERAL SPECIFICATIONS AND INSTRUCTIONS.

2.01 THE OWNER/ENGINEER SHALL PROVIDE SUCH PLANS,
SPECIFICATIONS, DRAWINGS, COMPLETED APPLICATION FORMS AND
INFORMATION NECESSARY TO SECURE ALL PERMITS, AS REQUIRED BY
THE MUNICIPALITY AND IDOT. WORK WILL NOT BE STARTED PRIOR TO
ACQUISITION OF ALL REQUIRED PERMITS.

2.02 THE ENGINEER HAS FORWARDED COPIES OF THE PLANS, INSTRUCTIONS AND
SPECIFICATIONS TO THE MUNICIPALITY FOR EVALUATION AND COMMENTS.
SUGGESTED CHANGES HAVE BEEN RESOLVED. PRIOR TO THE START OF ANY
WORK, UNDER THIS PROJECT.

2.03 USE OF PUBLIC WAY AND/OR TEMPORARY PUBLIC WAY CLOSURE AND
STREET OPENING PERMITS SHALL BE OBTAINED PRIOR TO ANY WORK
REQUIRING SUCH ACTION.

CONSTRUCTION ALONG EXISTING ROADWAYS SHALL BE COORDINATED WITH
ALL CONTROLLING JURISDICTIONS AND THE OWNER TO ENSURE THAT THE
CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND OF RESIDENTS
ALONG THE ROADWAY SHALL BE PROVIDED FOR IN AN ADEQUATE AND
SATISFACTORY MANNER. AT NO TIME SHALL THE EXISTING ROADWAYS BE
CLOSED TO TRAFFIC, UNLESS APPROVED BY THE OWNER. THE ENGINEER,
THE MUNICIPALITY, AND IDOT, DURING CONSTRUCTION OPERATIONS,
ACCESS SHALL BE PROVIDED TO PRIVATE PROPERTY ALONG EXISTING
ROADWAYS.

THE CONTRACTOR(S) SHALL ADHERE TO THE MUNICIPALITY AND IDOT
STANDARDS AND PRACTICES AND SHALL BE RESPONSIBLE FOR THE
INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, BARRICADES, AND
WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. AT A MINIMUM, ALL
TRAFFIC CONTROL PRACTICES SHALL BE CONSISTENT WITH THE PART 6 OF
THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES AS WELL AS SECTION 700 OF THE MOST CURRENT
REVISION TO THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING
CONSENT FROM THE ADJACENT LAND OWNERS AND FROM THE WRITTEN
CONSENT FROM THE LAND OWNER AND Hbk ENGINEERING, LLC.

SECTION 3.0 EXISTING UTILITIES

3.01 UTILITIES TO BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY WORK ON
THIS PROJECT. (1-800-426-0723). THE CONTRACTOR IS CAUTIONED TO EXPECT
TO ENCOUNTER UNRECORDED UTILITIES DURING EXCAVATION. DUE
CAUTION AND HAND-DIGGING WILL BE EXERCISED IN CLOSE PROXIMITY TO
INDICATED UNDERGROUND UTILITIES.

3.02 THE PLANS SHOW THE LOCATIONS OF WATER MAINS, GAS MAINS,
COMMUNICATION LINES, ELECTRIC LINES, SEWERS, AND OTHER UTILITY LINES
ACCORDING TO INFORMATION AVAILABLE IN THE FIELD AND IN RECORDS.
THIS INFORMATION IS NOT DEEMED TO BE COMPLETE. IT IS THE EXPRESS
RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION
AND ELEVATION OF ALL EXISTING FACILITIES, PIPES, AND LINES, AND TO
PROVIDE FOR THEIR PROPER PROTECTION, SUPPORT AND MAINTENANCE
PRIOR TO ALL CONSTRUCTION OPERATIONS. WHENEVER EXISTING UTILITY
LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION OR
ELEVATION WITH PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL
NOTIFY THE ENGINEER IN WRITING, WHO WILL PROVIDE ANY ENGINEERING
REQUIRED TO AVOID THE CONFLICT.

3.03 FOR BORED INSTALLATIONS, THE CONTRACTOR SHALL PERFORM TEST HOLE
AT ALL UTILITY CROSSINGS TO VERIFY THE LOCATION AND ELEVATION OF ALL
UTILITIES PRIOR TO ANY EXCAVATION, AND TO LOCATE ANY POSSIBLE
OBSTRUCTIONS. ALL TEST HOLES SHALL BE CONSIDERED INCIDENTAL TO THE
CONTRACT.

3.04 FOR TRENCHED INSTALLATIONS, THE CONTRACTOR SHALL PERFORM TEST
HOLES PER PLAN OR AS DEEMED NECESSARY TO VERIFY THE LOCATION AND
ELEVATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION, AND TO LOCATE
ANY POSSIBLE OBSTRUCTIONS. ALL TEST HOLES SHALL BE CONSIDERED
INCIDENTAL TO THE CONTRACT.

3.05 ALL NEW FACILITIES SHALL BE INSTALLED AND CONSTRUCTED WITHIN THE
PUBLIC RIGHT-OF-WAY AND SHALL BE INSTALLED AND CONSTRUCTED WITHIN THE
TRESPASS OF ADJACENT LAND OWNERS WITHOUT THEIR WRITTEN
CONSENT FROM THE LAND OWNER AND Hbk ENGINEERING, LLC.

SECTION 4.0 MATERIALS

4.01 ALL MATERIALS WITHIN THE LIMITS OF THIS PROJECT SHALL BE IN
CONFORMANCE WITH STANDARD RECOMMENDATIONS OF THE NATIONAL
ELECTRIC CONTRACTORS ASSOCIATION AND AMERICAN NATIONAL
STANDARDS INSTITUTE.

4.02 ALL CONDUIT, ELBOWS, AND COUPLINGS WITHIN THE PUBLIC R.O.W. SHALL
BE HIGH DENSITY POLYETHYLENE (HDPE), "SDR 11" UNLESS OTHERWISE
NOTED.

4.03 JOB SITE MATERIAL WILL BE DELIVERED TO, AND MAINTAINED AT THE
STREET WORK AREAS IN A WELL-MANAGED MANNER, TO MINIMIZE
CONGESTION OR INCONVENIENCE TO OTHER WORKERS, OR CONTRACTORS
WORKING UNDER ALTERNATE PERMITS.

SECTION 5.0 WORK

5.01 THE CONTRACTOR SHALL INVESTIGATE THE PROJECT, PLANS,
SPECIFICATIONS, INSTRUCTIONS, SITE, UTILITIES, TRAFFIC CONDITIONS,
MATERIAL, LABOR, EXCAVATION, RESTORATION AND REQUIRED SAFETY
PRECAUTIONS INVOLVED WITH THIS PROJECT. ANY QUESTIONS OR
CONCERNS THE CONTRACTOR MAY HAVE ARE TO BE DISCUSSED WITH THE
OWNER AND ENGINEER PRIOR TO CONSTRUCTION.

5.02 THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, LABOR,
INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, JOB SITE
DELIVERY COSTS TO COMPLETE THE DESCRIBED, OR ILLUSTRATED WORK
UNDER THIS CONTRACT.

5.03 ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE
OWNER'S REPRESENTATIVE AND APPROVED BY THE OWNER'S REPRESENTATIVE
BEFORE THE REQUESTED CHANGE DOCUMENTATION CONCERNING ANY AND ALL
CHANGE ORDERS WILL BE REDUCED TO FORMAL RECORD, FILED WITH THE
OWNER'S REPRESENTATIVE, AND BE MADE AVAILABLE FOR FUTURE
REFERENCE.

5.04 THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR
NEGLIGENCE ACTS OR ERRORS OR OMISSIONS OF ANY CONTRACTOR, ANY
SUBCONTRACTOR, OR ANY OF THE CONTRACTOR'S OR SUBCONTRACTOR'S
AGENTS OR EMPLOYEES OR ANY OTHER PERSONS (EXCEPT ENGINEER'S
OWN NEGLIGENCE) IN CONNECTION WITH THE PROJECT OR OTHERWISE PERFORMING ANY
OF THE WORK UNDER THIS PROJECT. THE CONTRACTOR, SUBCONTRACTOR,
AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR HIS OWN SAFETY
PROGRAM.

NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE
PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND
SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE ANY
CONTRACTOR OF HIS OR HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES
INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS,
SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING,
SUPPORTING, OR MAINTAINING ALL CONDUIT LAYOUTS OF THE CONSTRUCTION
IN ACCORDANCE WITH THE CITY OF CHICAGO'S AND THE ILLINOIS
SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE
ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE
ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY
OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY
PRECAUTIONS.

5.05 THE CONTRACTOR IS TO RESTORE ALL DAMAGED STRUCTURES AND
UTILITIES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

5.06 RESTORATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDED
PRACTICES AND REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF
TRANSPORTATION, AND THE MUNICIPALITY AND THE PERMITS ISSUED.

5.07 THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR ADVANCED NOTICE
TO Hbk ENGINEERING (312-432-0076) TO SCHEDULE A PRE-CONSTRUCTION
WALK THROUGH WITH A Hbk ENGINEERING REPRESENTATIVE. THIS WALK
THROUGH MUST BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY
WORK WITHIN THE LIMITS OF THIS PROJECT.

5.08 UPON COMPLETION, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH
RECORD DRAWINGS (RED-LINES) MADE DURING CONSTRUCTION.

5.09 THE CONTRACTOR(S) SHALL CONSTRUCT THE PROPOSED CONDUIT AS
LOCATED/DIMENSIONED WITHIN THESE DESIGN DRAWINGS. IN THE EVENT
THE CONTRACTOR(S) WISHES TO VARY THE LOCATION, A WRITTEN REQUEST
MUST BE PRESENTED TO THE ENGINEER FOR SUBMITTAL TO THE GOVERNING
AGENCIES AND SUBSEQUENT APPROVAL PRIOR TO PROCEEDING WITH THE
REQUESTED CHANGE.

PROJECT
CRC-ST-985

ENGINEER
hbk
ENGINEERING
41 WEST VAN BUREN STREET, SUITE 100
CHICAGO, ILLINOIS 60607
STATE OF ILLINOIS REGISTRATION
OF PROFESSIONAL ENGINEERING
LICENSE NO. 16-000008
CONTRACT NO.

CONTRACTOR
CROWN
CASTLE

TITLE:
FREE OPTIC CONDUIT
INSTALLATION-CONNECTION
AT CROWN CASTLE
PUBLIC LIBRARY
JENNIFER EKLBERG
CHICAGO, ILLINOIS

REVISIONS	
DATE	DESCRIPTION
1	ISSUED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED

REVISIONS	
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7	REVISED
8	REVISED
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10	REVISED
11	REVISED
12	REVISED

PROJECT MANAGER: JENNIFER KENNEDY

PROJECT PLAN



CRC-ST-985

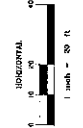
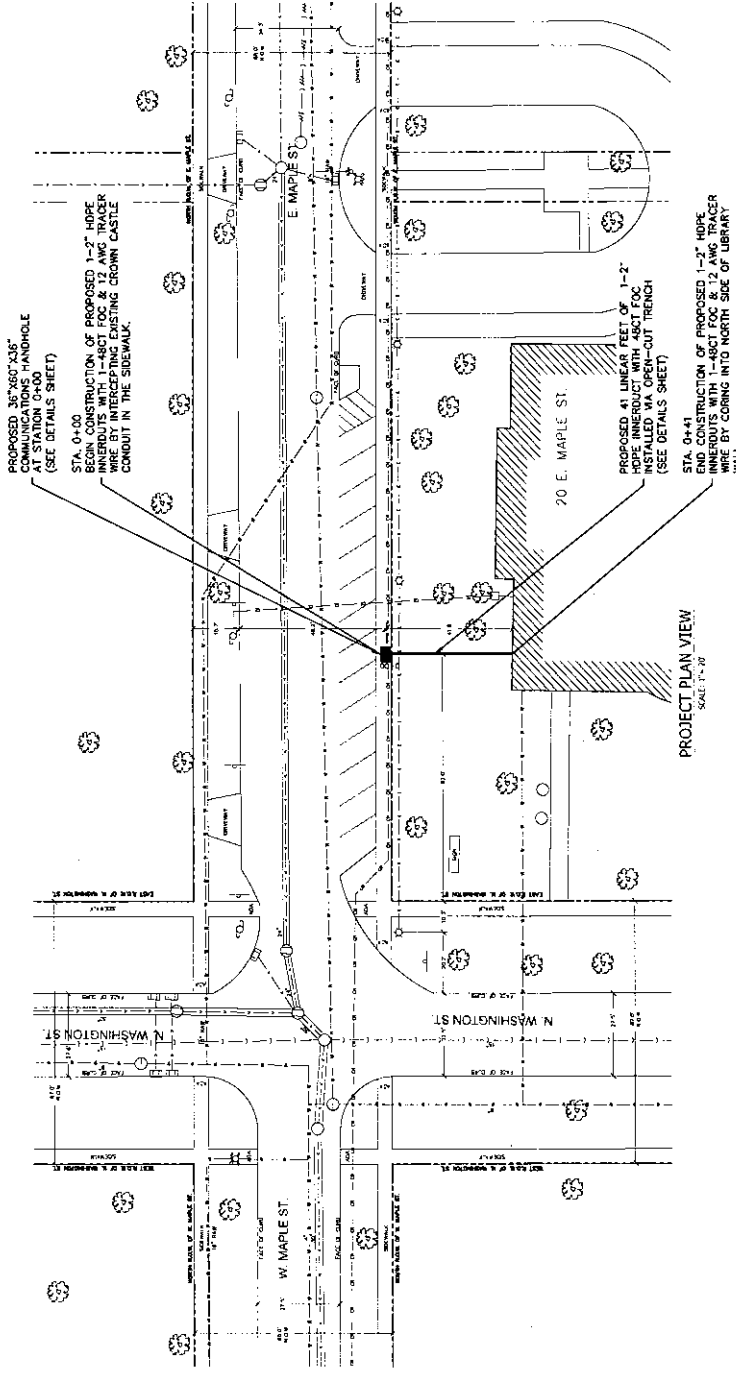
hbk
ENGINEERING
401 WEST MAPLE STREET, SUITE 100
ST. LOUIS, MISSOURI 63101
STATE OF ILLINOIS REGISTRATION
OF PROFESSIONAL ENGINEERS
LICENSE NO. 124000000

CROWN
CASTLE

TITLE: FIBER OPTIC CONDUIT
INSTALLATION-CONNECTION
AT THE CROWN CASTLE
PUBLIC LIBRARY
BENS DALE, ILLINOIS

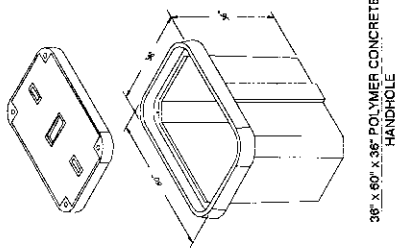
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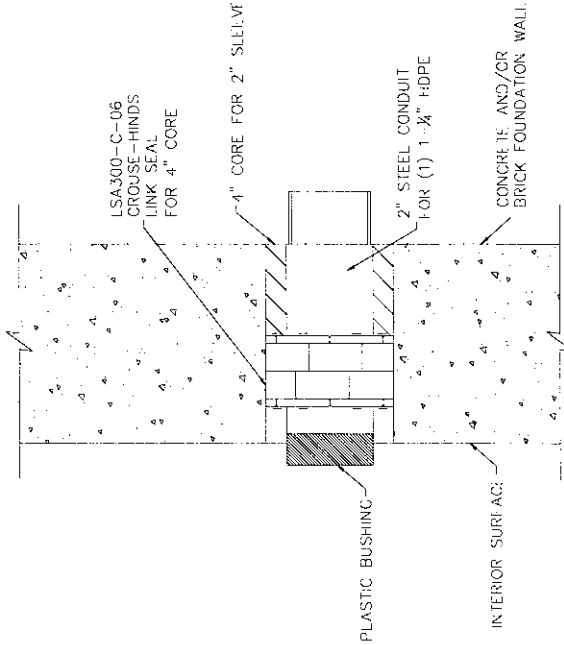


NOTE: THE CONTRACTOR SHALL REMOVE AND REPLACE THE CONCRETE SIDEWALK IN FULL PANELS AND JOINTS, MATCHING THE EXISTING JOINTING PATTERN.

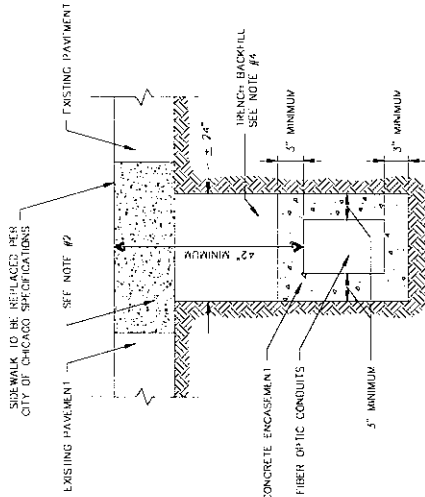
LEGEND
SEE GENERAL NOTES ON SHEET 2
NOTE: USE EXTREME CAUTION WHEN DIGGING NEAR EXISTING UTILITIES.
POSSIBLE LOCATION OF SOME P.T. CONTRACTOR TO FIELD VERIFY



36" X 60" X 36" POLYMER CONCRETE HANDHOLE



CONCRETE PENETRATION DETAIL



NOTES:

1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 9 OR MORE INCHES FOR CONCRETE STREETS. THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING THE 3\"
2. ALL EXISTING PAVEMENTS SHALL BE CUT 1\"
3. ALL AREAL STREET PAVEMENTS WHICH HAVE BEEN RECONSTRUCTED IN THE LAST SEVEN YEARS WILL REQUIRE PLACEMENT OF #5 DOWEL BARS, 18 INCHES LONG, DRILLED AND GROUTED (NON-SHRINK) AT 30 INCH CENTERS ON ALL SIDES. A MINIMUM OF TWO DOWEL BARS WILL BE REQUIRED ON EACH SIDE OF THE SAW CUT BOUNDARIES.
4. ALL TRENCH BACKFILL MATERIAL AND PROCEDURES FOR REPAIRS TO EXISTING PAVEMENTS TO BE SHOWN IN CHAPTER 5 OF THE CHICAGO DEPARTMENT OF TRANSPORTATION REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY, LATEST EDITION.

SIDEWALK REPLACEMENT DETAIL

STANDARD
CIRC-ST-985

hbk
ENGINEERING
41 WESTMAN PARK DRIVE, SUITE 200
STATE OF ILLINOIS REGULATION
OF PROFESSIONAL REGULATION
LICENSE NO. 04-0000000

CROWN
CASTLE

TITLE
FIBER OPTIC CONDUIT
INSTALLATION CONNECTION
TO EXISTING MANHOLE
PUBLIC LIBRARY
INDIANAPOLIS

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/1/2021	ISSUED	JAG
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12	10/1/2021	ISSUED	JAG

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