

NOTICE OF PUBLIC MEETING

Notice is hereby given pursuant to M.G.L. Chapter 166, Section 22 that the City Council of the City of Cambridge will hold a public meeting on October 7, 1985 in the City Hall at 6:00 p.m. on a petition by Polaroid Corporation for permission to install fiber optic cable in existing underground conduit facilities owned by New England Telephone and Telegraph Company in the following public ways:

Main Street  
Portland Street

Copies of a plan showing the proposed street locations of the cable and information describing the type of cable and method of installation are available for inspection at the office of the City Clerk from 9:00 A.M. to 5:00 P.M., Monday through Friday.

Filed with the office of the City Clerk on September 19, 1985 (required by M.G.L. Chapter 39, Section 23B).

Posted on municipal bulletin board on October 1st, 1985 (at least 48 hours, including Saturdays but not Sundays and legal holidays, prior to such meeting).

Paul E. Healy, City Clerk.

RECEIVED BY  
OFFICE OF CITY CLERK

1985 OCT -1 PM 4: 44



# City of Cambridge

17.

COUNCILLOR WALTER SULLIVAN

IN CITY COUNCIL

October 7, 1985

ORDERED:

Pursuant to Massachusetts General Laws (M.G.L.) Chapter 166, Section 22, the undersigned hereby grant permission to Polaroid Corporation to install a fiber optic communication cable within existing underground conduit facilities owned by New England Telephone and Telegraph Company ("NET") located in the following public way or ways:

Main Street  
Portland Street

Along the route substantially shown on the attached plan filed with the City Council.

<u>Alfredo LaRosa</u>	<u>Allen P. Wolf</u>
<u>Thomas W. Dwyer</u>	<u>Daniel J. Clinton</u>
<u>David E. Sullivan</u>	<u>Sandra Liskow</u>
<u>Kathleen J. Sullivan</u>	<u>Joseph V. Bellucci</u>
	<u>Wm. H. Aubrey</u>

In City Council October 7, 1985

Adopted by a ye and nay vote:-

Yeas <sup>9</sup>; Nays <sup>0</sup>; Absent <sup>0</sup>.

Attest:- Paul E. Healy, City Clerk.

A true copy;

ATTEST:-

Paul E. Healy  
Paul E. Healy, City Clerk.

### CERTIFICATION

I HEREBY CERTIFY that the foregoing Order was adopted by the City Council at a meeting of said Council held on the 7th day of October, 1985, that said meeting was duly noticed in accordance with the requirements of M.G.L. Chapter 39, Section 23B, and that notice was given to New England Telephone and Telegraph Company as owner of the underground conduit facilities.

Attest:-

Paul E. Healy  
Clerk of the City of Cambridge.

ACCEPTANCE

Polaroid Corporation hereby accepts without reservation the above Order of the City Council adopted on the 7th day of October, 1985, with the conditions, terms and provisions contained therein and the ordinances of the City and future amendments therof. Polaroid further agrees to carry out, observe, perform and be subject to the same.

POLAROID CORPORATION

Dated:

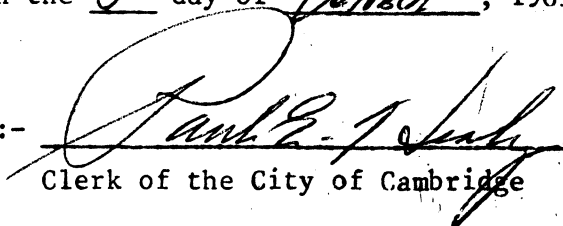
By: \_\_\_\_\_

Edward R. Bedrosian  
Vice President and  
Treasurer

CERTIFICATION

I HEREBY CERTIFY that the full executed Order was recorded in accordance with the requirements of M.G.L. Chapter 166, Section 22, in books kept exclusively thereafter in the office of the City Clerk on the 7th day of October, 1985.

ATTEST:-

  
Clerk of the City of Cambridge



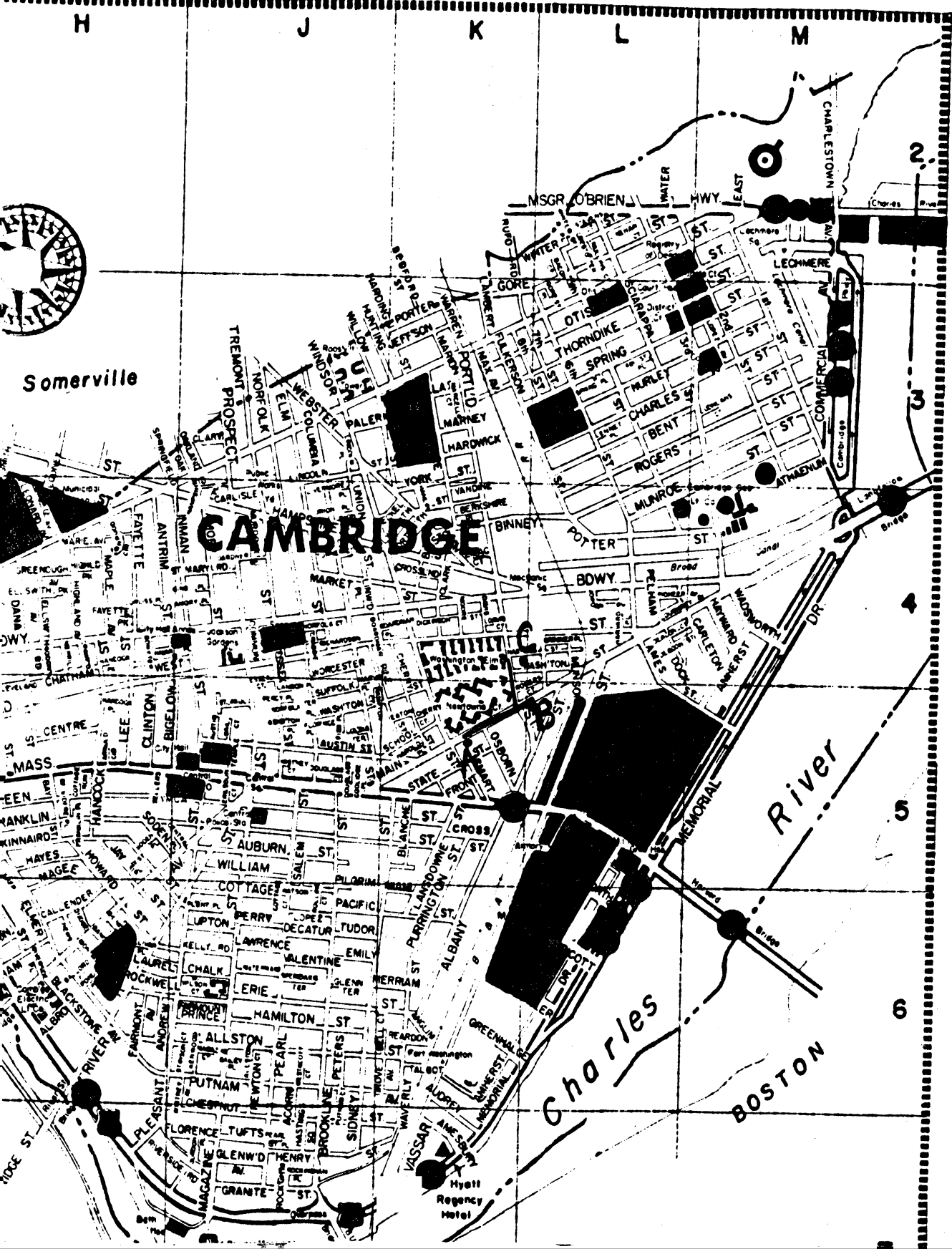
# C. BRENDON NOONAN & CO. Real Estate

Commercial • Industrial • Residential  
Appraisers • Auctioneers

323 Broadway  
CAMBRIDGE, MA. 02139 (617) 876-3500

- "A" 750 Main Street
- "B" 600 Main Street
- "C" 565 Tech Square

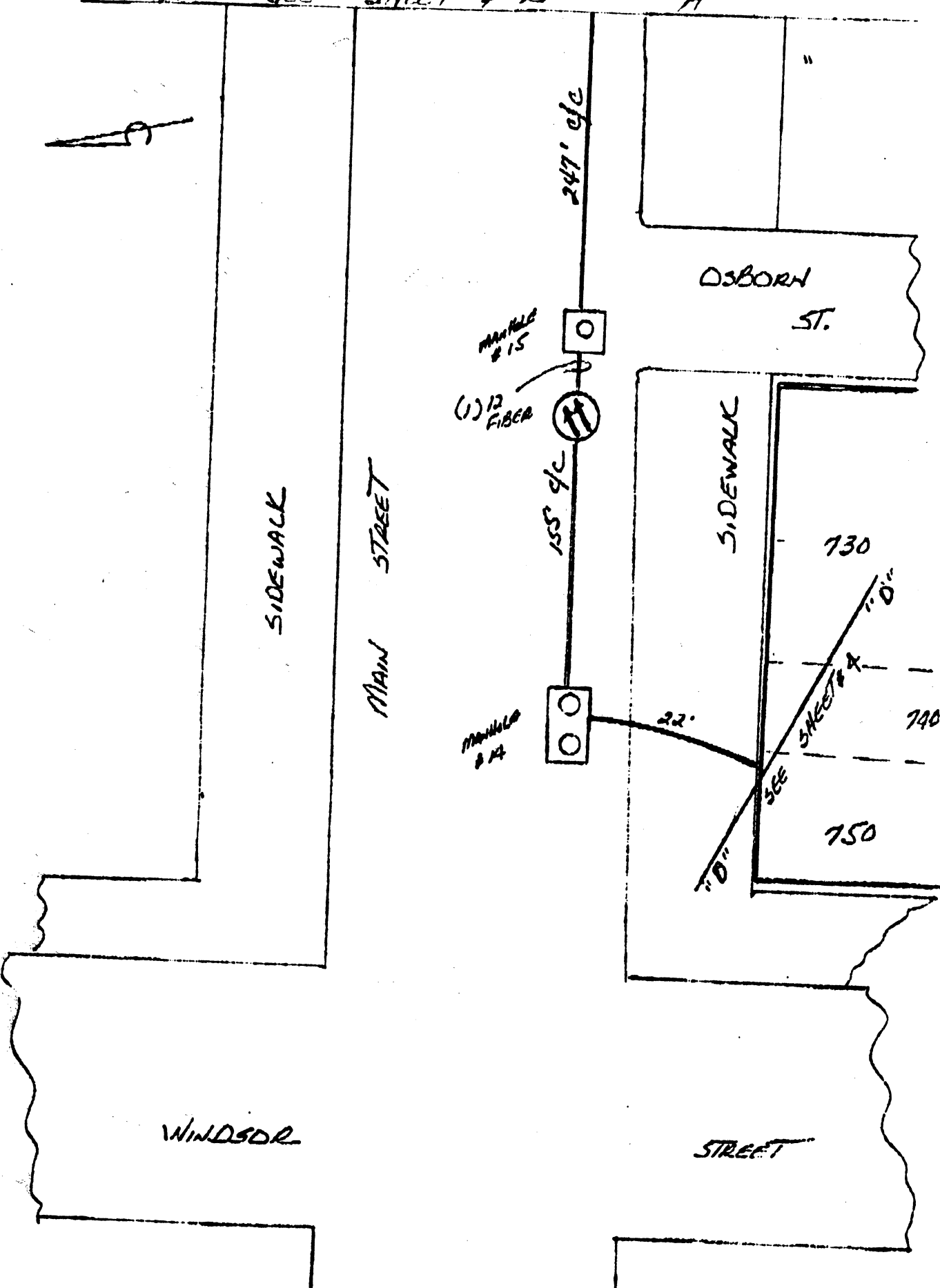
LOCATION OF EXISTING UNDERGROUND  
CONDUIT FACILITIES CONNECTING  
THREE POLAROID CORPORATION  
FACILITIES ("A", "B" and "C")  
IN CAMBRIDGE, MA



POLAROID CORP. - CAMBRIDGE

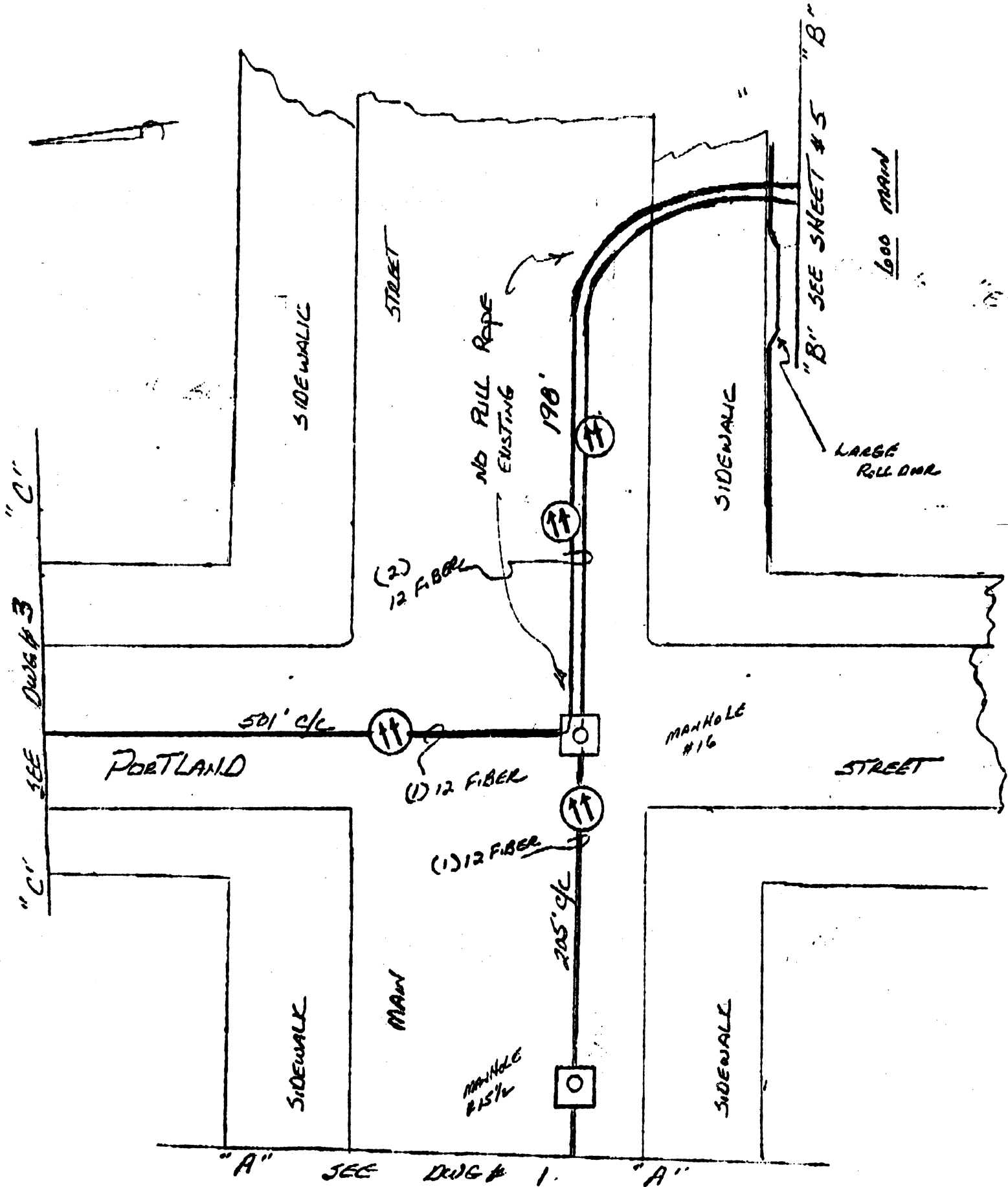
"A" SEE SHEET # 2

"A"



NO SCALE

DWG # 1



600 MAIN

"B" SEE SHEET # 5 "B"

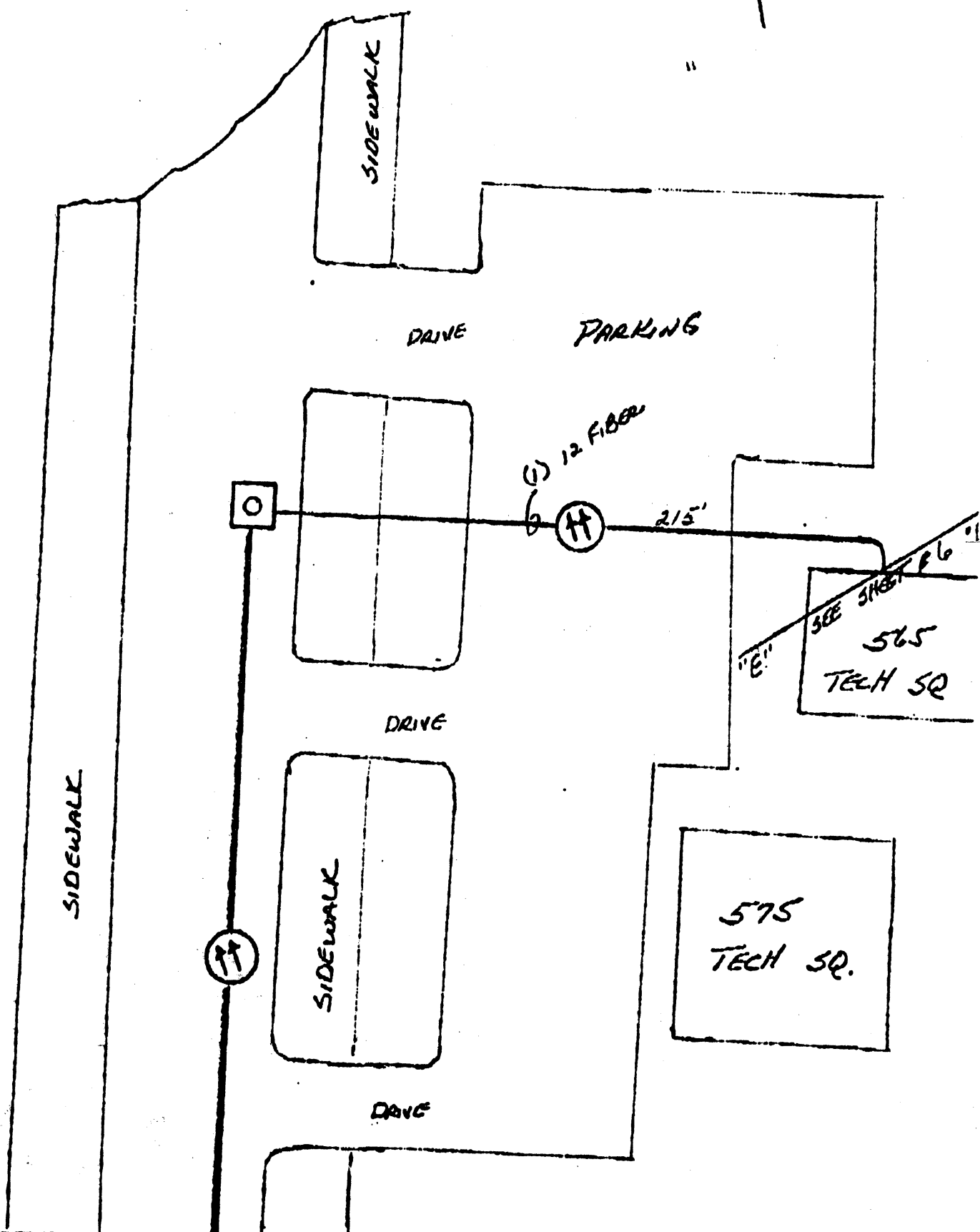
LARGE ROLL DNR

MANHOLE #16

MANHOLE #15 1/2

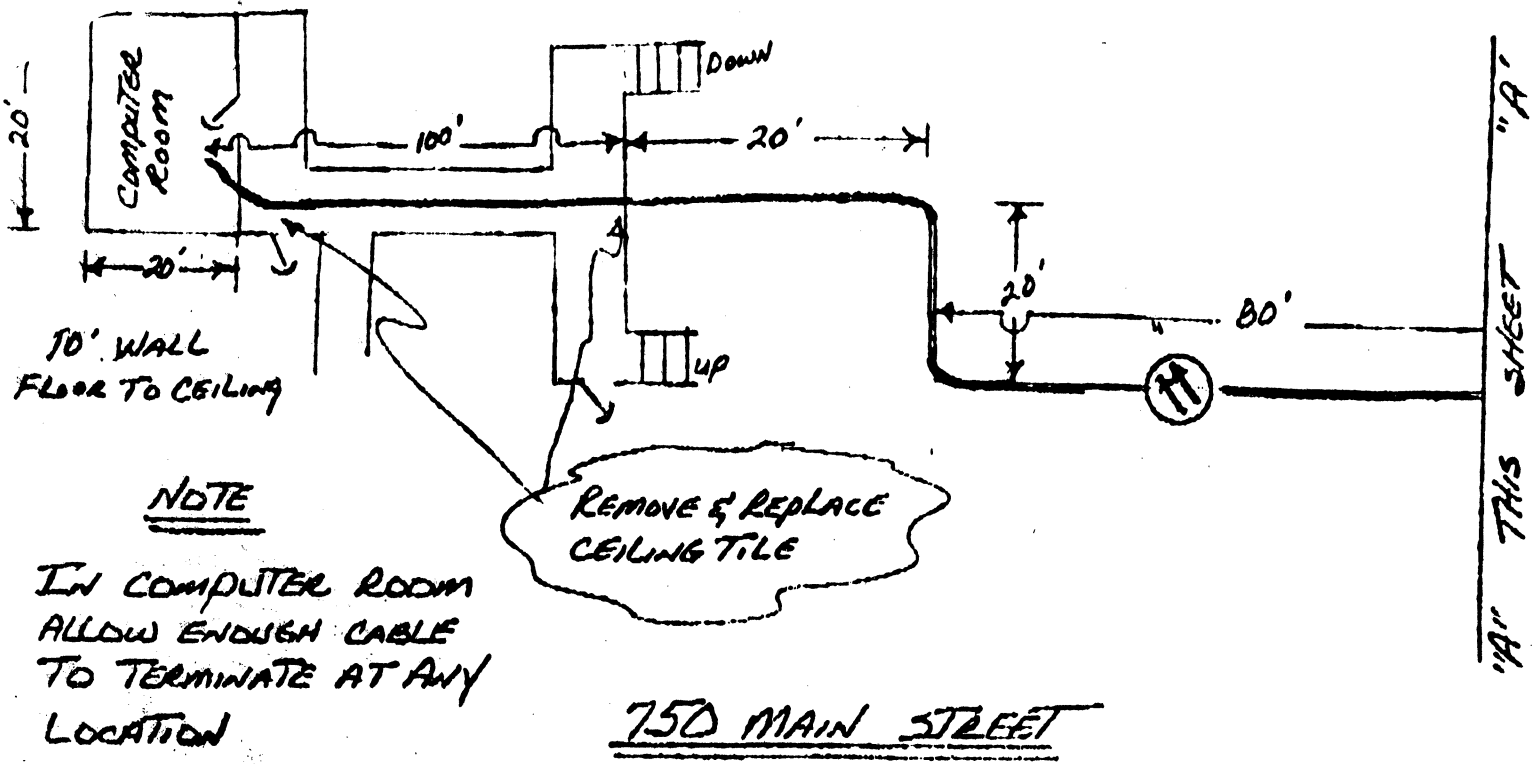
NO SCALE

DWG - 7



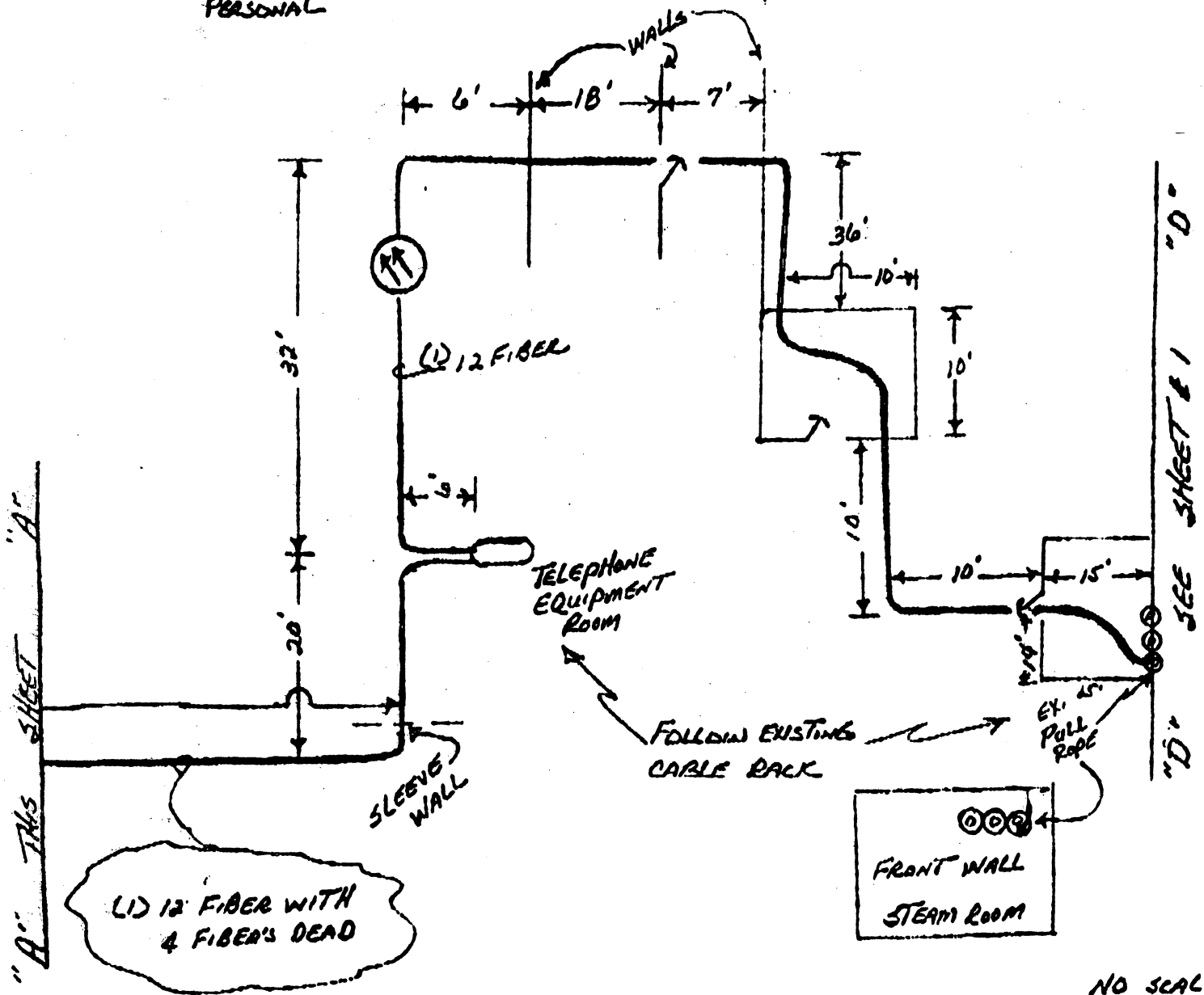
"C" SEE SHEET # 2 "C"

No SCALE  
SHEET # 3

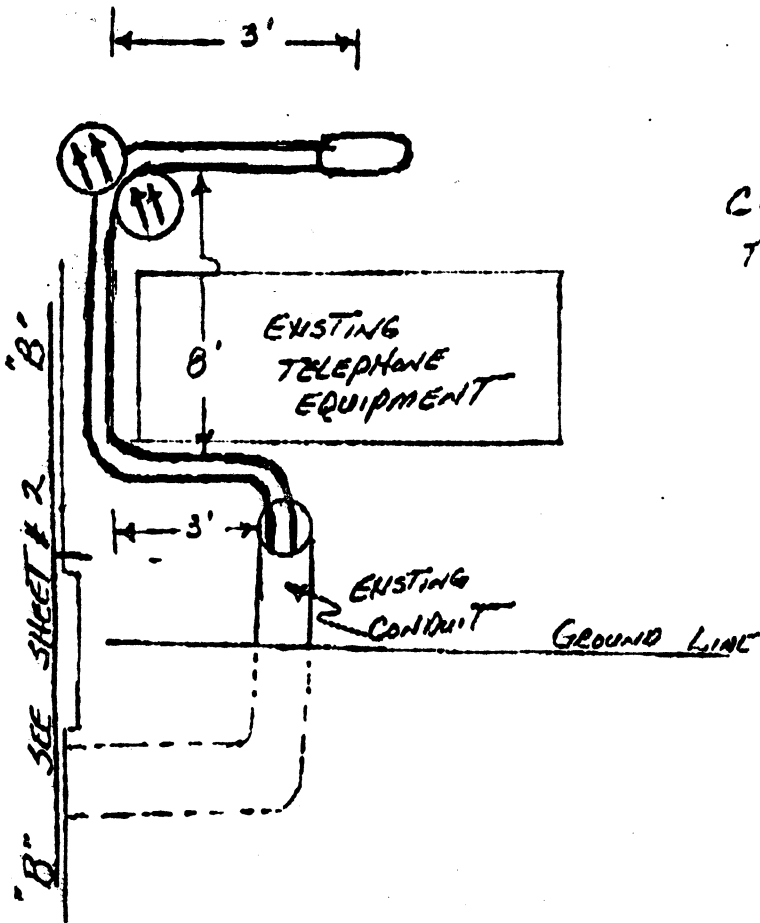


IN COMPUTER ROOM  
ALLOW ENOUGH CABLE  
TO TERMINATE AT ANY  
LOCATION

PER POLAROID  
PERSONAL

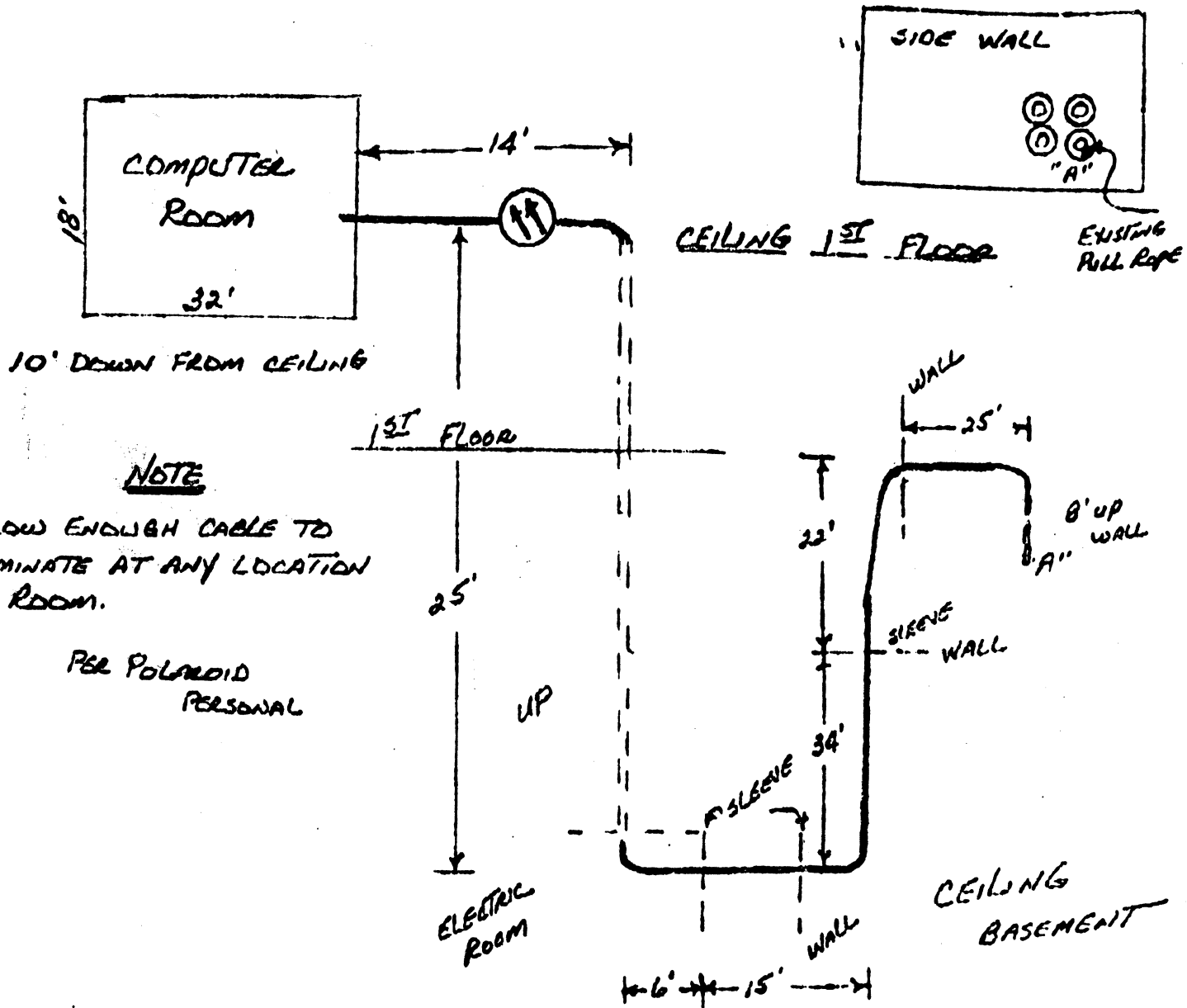


600 MAIN STREET



CLEAT CABLE  
TO WALL

# 565 TECH SQUARE



STRAP CABLE TO EXISTING CONDUITS

NO SCALE

SHEET # 6

ACCEPTANCE

Polaroid Corporation hereby accepts without reservation the above Order of the City Council adopted on the 7th day of October, 1985, with the conditions, terms and provisions contained therein and the ordinances of the City and future amendments therof. Polaroid further agrees to carry out, observe, perform and be subject to the same.

POLAROID CORPORATION

Dated:

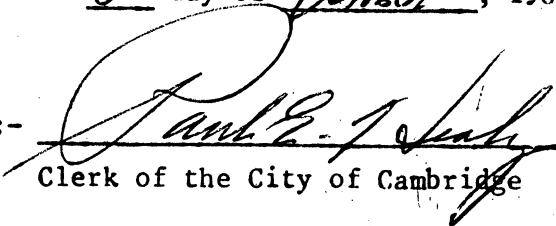
By: \_\_\_\_\_

Edward R. Bedrosian  
Vice President and  
Treasurer

CERTIFICATION

I HEREBY CERTIFY that the full executed Order was recorded in accordance with the requirements of M.G.L. Chapter 166, Section 22, in books kept exclusively thereafter in the office of the City Clerk on the 7th day of October, 1985.

ATTEST:-

  
Clerk of the City of Cambridge



# CITY OF CAMBRIDGE

CITY HALL, CAMBRIDGE, MASSACHUSETTS 02139 • (617) 498-9017

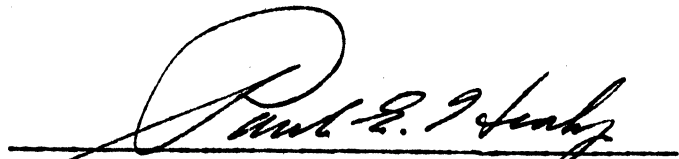
OFFICE OF  
THE CITY CLERK

## CERTIFICATION

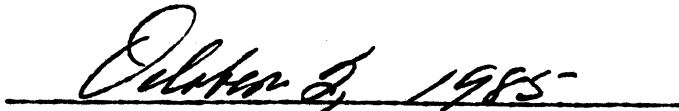
I, Paul Healy, hereby certify that a copy of the Notice attached hereto as Exhibit "A" was filed with the office of the City Clerk on September 19, 1985 and was posted on the municipal bulletin board on October 1, 1985 (at least 48 hours, including Saturdays, but not Sundays and legal holidays prior to the public meeting to be held on October 7, 1985, as required by M.G.L. Chapter 39, Section 23B), and was mailed to New England Telephone and Telegraph Company on October 2, 1985 as owner of the existing conduit facilities.

CITY OF CAMBRIDGE  
CITY COUNCIL

Attest:

  
Paul Healy, Clerk of the City Council  
and City Clerk

Dated:



*NYHEL order*

# City of Cambridge

MASSACHUSETTS

In City Council

10/7/ 1985

	YEA	NAY	ABSENT	PRESENT
Mr. Daniel J. Clinton	✓			
Mr. Thomas W. Danehy	✓			
Ms. Sandra Graham	✓			
Mr. Alfred W. LaRosa	✓			
Mr. David E. Sullivan	✓			
Mr. Walter J. Sullivan	✓			
Mr. Alfred Vellucci	✓			
Ms. Alice K. Wolf	✓			
Mayor Duehay	✓			

*C. C. 108  
ms  
NY*

9

ORDER

Pursuant to Massachusetts General Laws (M.G.L.) Chapter 166, Section 22, the undersigned hereby grant permission to Polaroid Corporation to install a fiber optic communication cable within existing underground conduit facilities owned by New England Telephone and Telegraph Company ("NET") located in the following public way or ways:

Main Street  
Portland Street

Along the route substantially shown on the attached plan filed with the City Council.


CERTIFICATION

I HEREBY CERTIFY that the foregoing Order was adopted by the City Council at a meeting of said Council held on the \_\_\_\_\_ day of \_\_\_\_\_, 1985, that said meeting was duly noticed in accordance with the requirements of M.G.L. Chapter 39, Section 23B, and that notice was given to New England Telephone and Telegraph Company as the owner of the underground conduit facilities.

Attest:

\_\_\_\_\_  
Clerk of the City of Cambridge

ACCEPTANCE

Polaroid Corporation hereby accepts without reservation the above Order of the City Council adopted on the \_\_\_\_\_ day of \_\_\_\_\_, 1985, with the conditions, terms and provisions contained therein and the ordinances of the City and future amendments thereof. Polaroid further agrees to carry out, observe, perform and be subject to the same.

Dated:

POLAROID CORPORATION

By:

\_\_\_\_\_  
Edward R. Bedrosian  
Vice President and  
Treasurer

CERTIFICATION

I HEREBY CERTIFY that the fully executed Order was recorded in accordance with the requirements of M.G.L. Chapter 166, Section 22, in books kept exclusively therefor in the office of the City Clerk on the \_\_\_\_\_ day of \_\_\_\_\_, 1985.

Attest:

\_\_\_\_\_  
Clerk of the City of Cambridge



# C. BRENDON NOONAN & CO. Real Estate

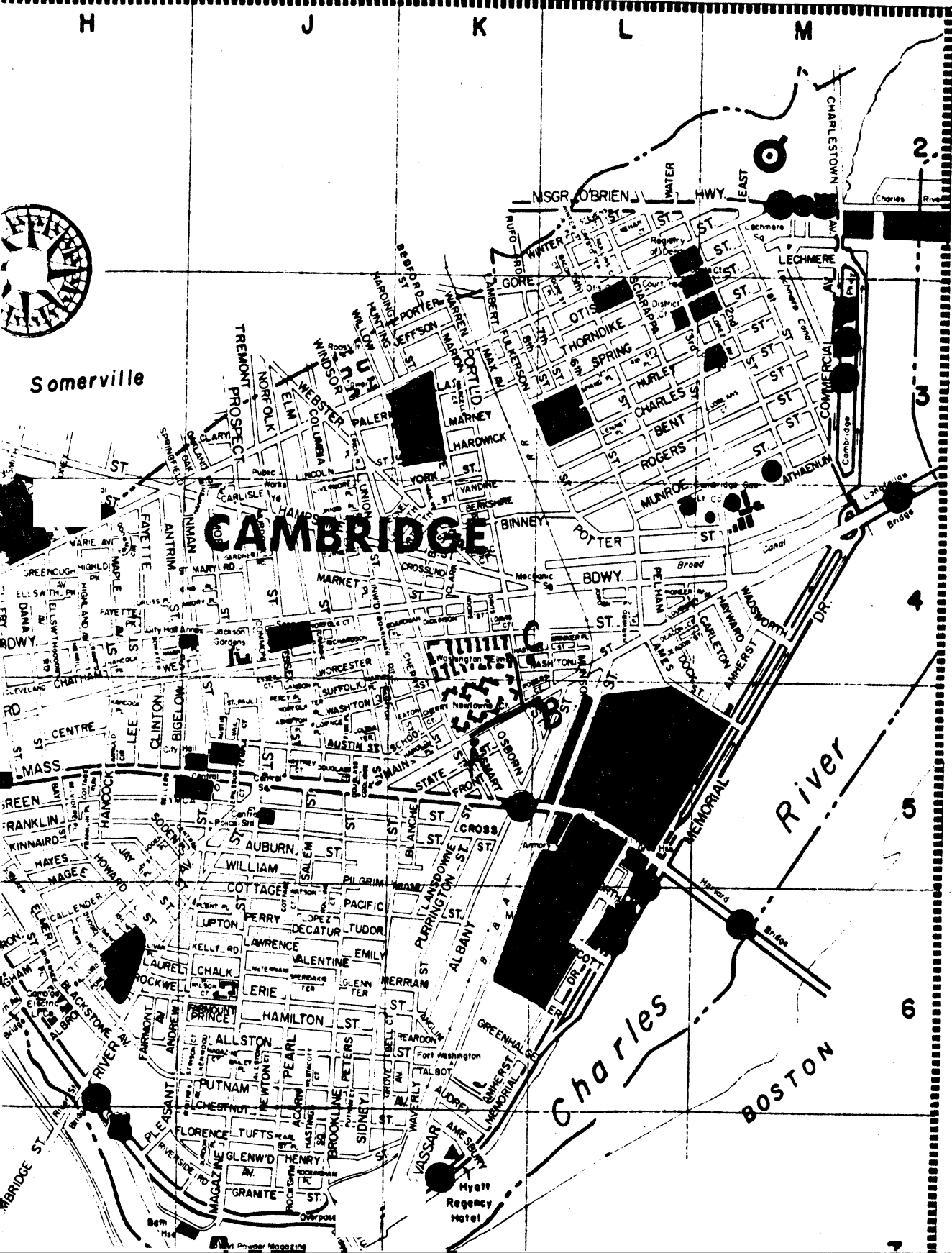
Commercial • Industrial • Residential  
Appraisers • Auctioneers

323 Broadway  
CAMBRIDGE, MA. 02139

(617) 876-3500

- "A" 750 Main Street
- "B" 600 Main Street
- "C" 565 Tech Square

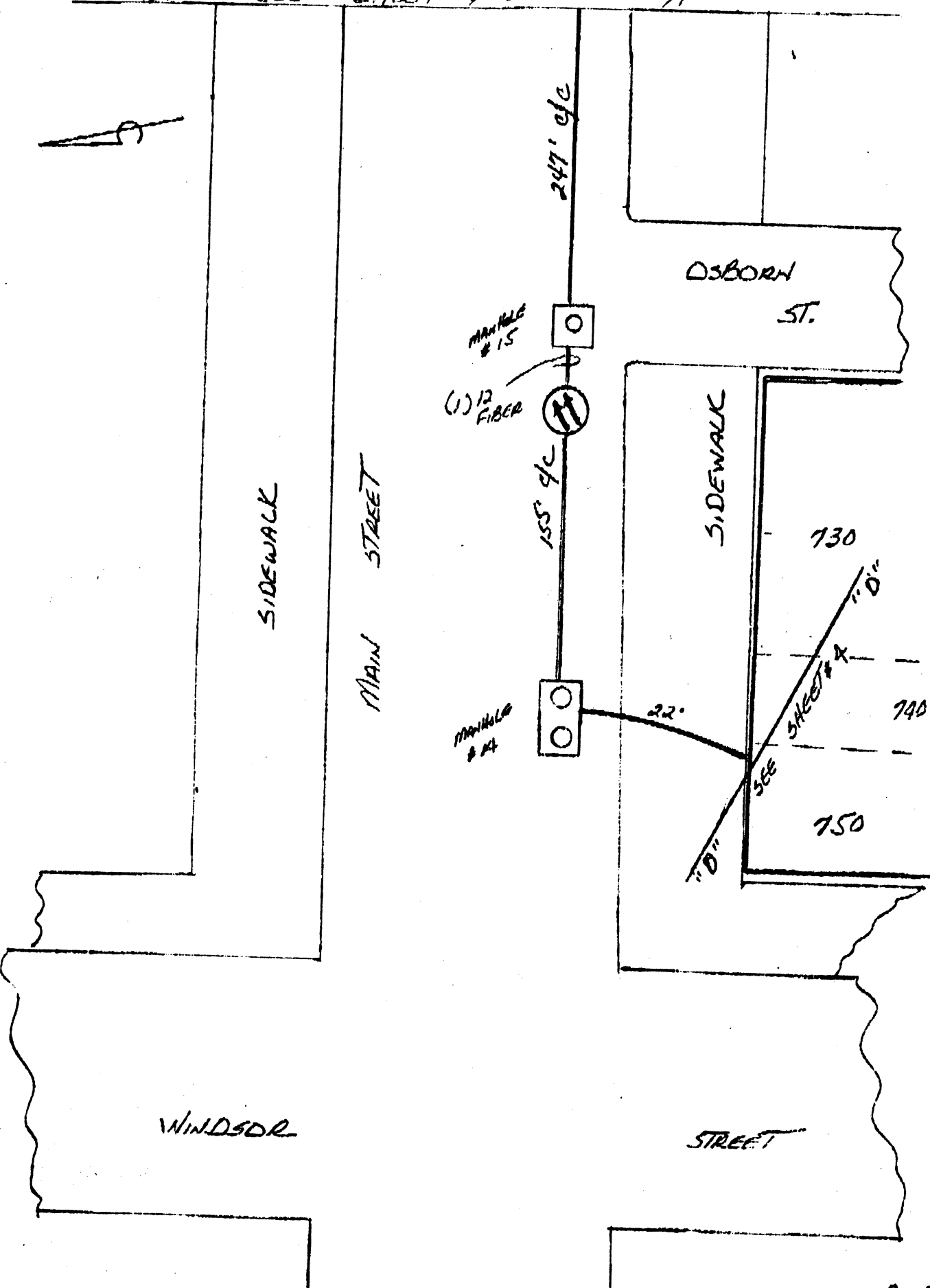
LOCATION OF EXISTING UNDERGROUND  
CONDUIT FACILITIES CONNECTING  
THREE POLAROID CORPORATION  
FACILITIES ("A", "B" and "C")  
IN CAMBRIDGE, MA



POLAROID CORP. - CAMBRIDGE

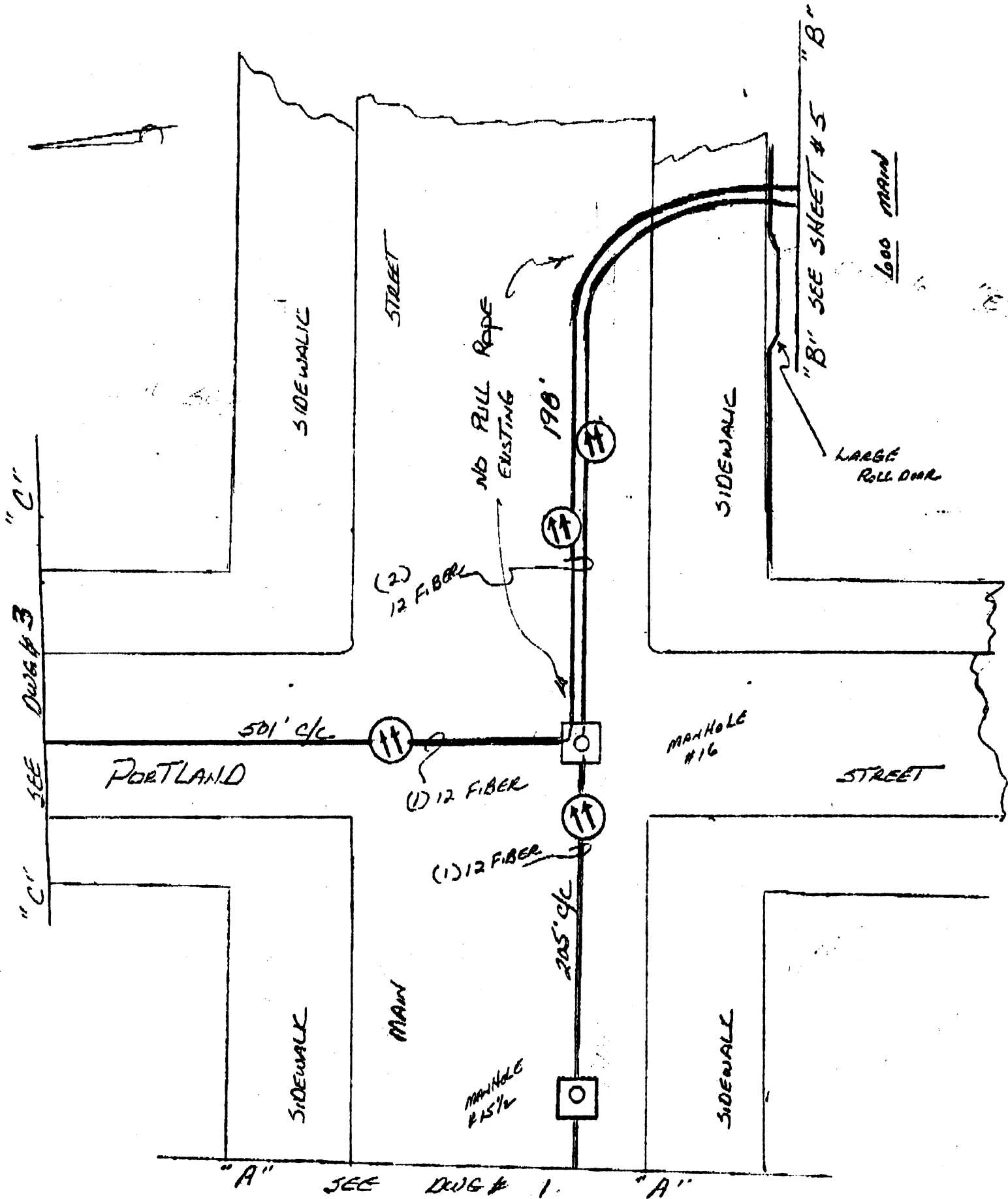
"A" SEE SHEET # 2

"A"



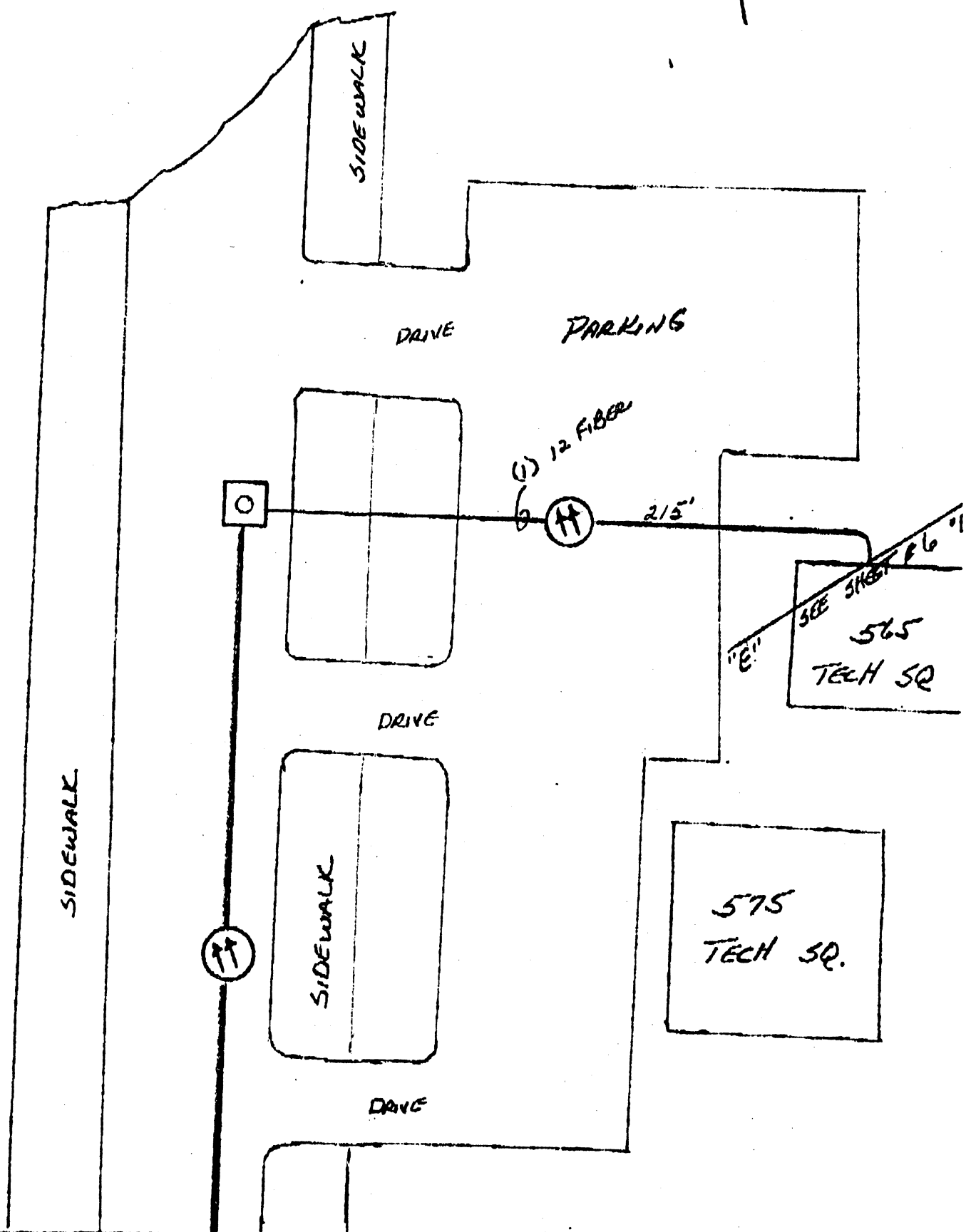
NO SCALE

DWG # 1



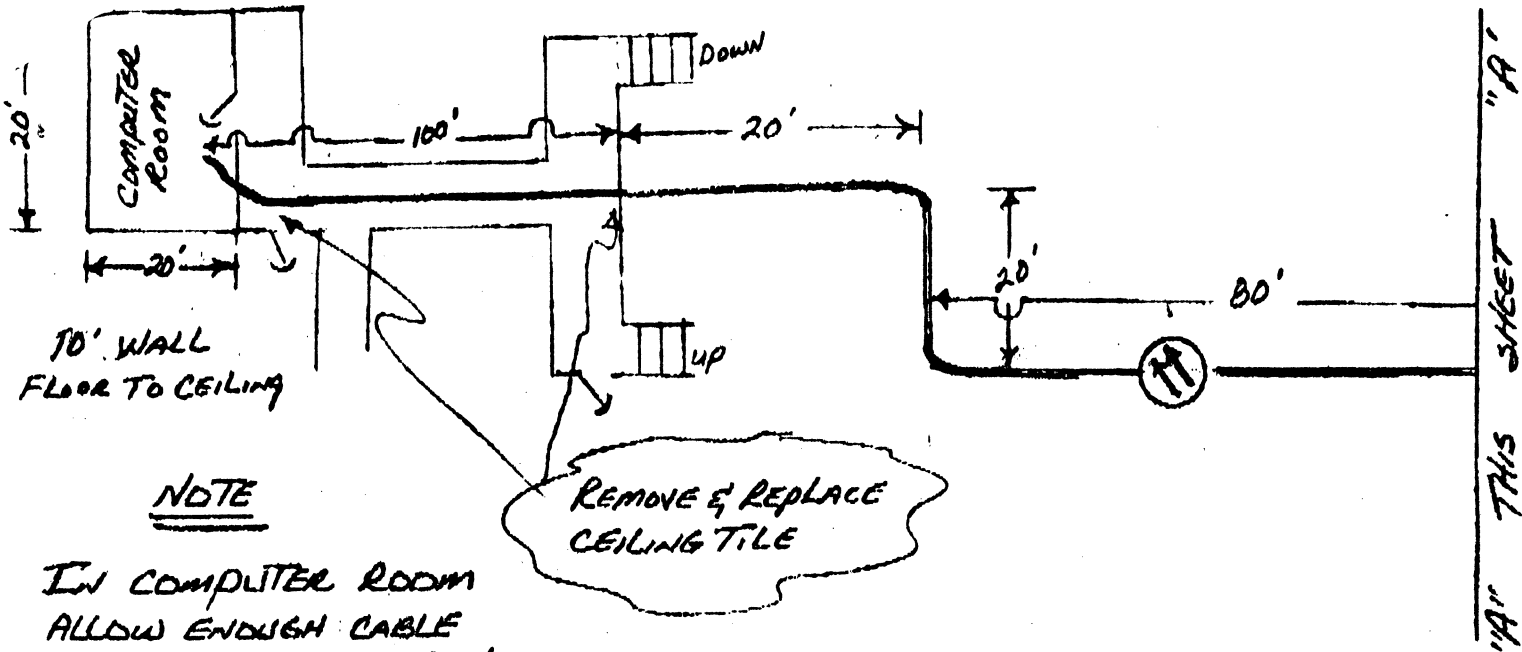
NO SCALE

DWG # 9



"C" SEE SHEET # 2 "C"

NO SCALE  
SHEET # 3



10' WALL  
FLOOR TO CEILING

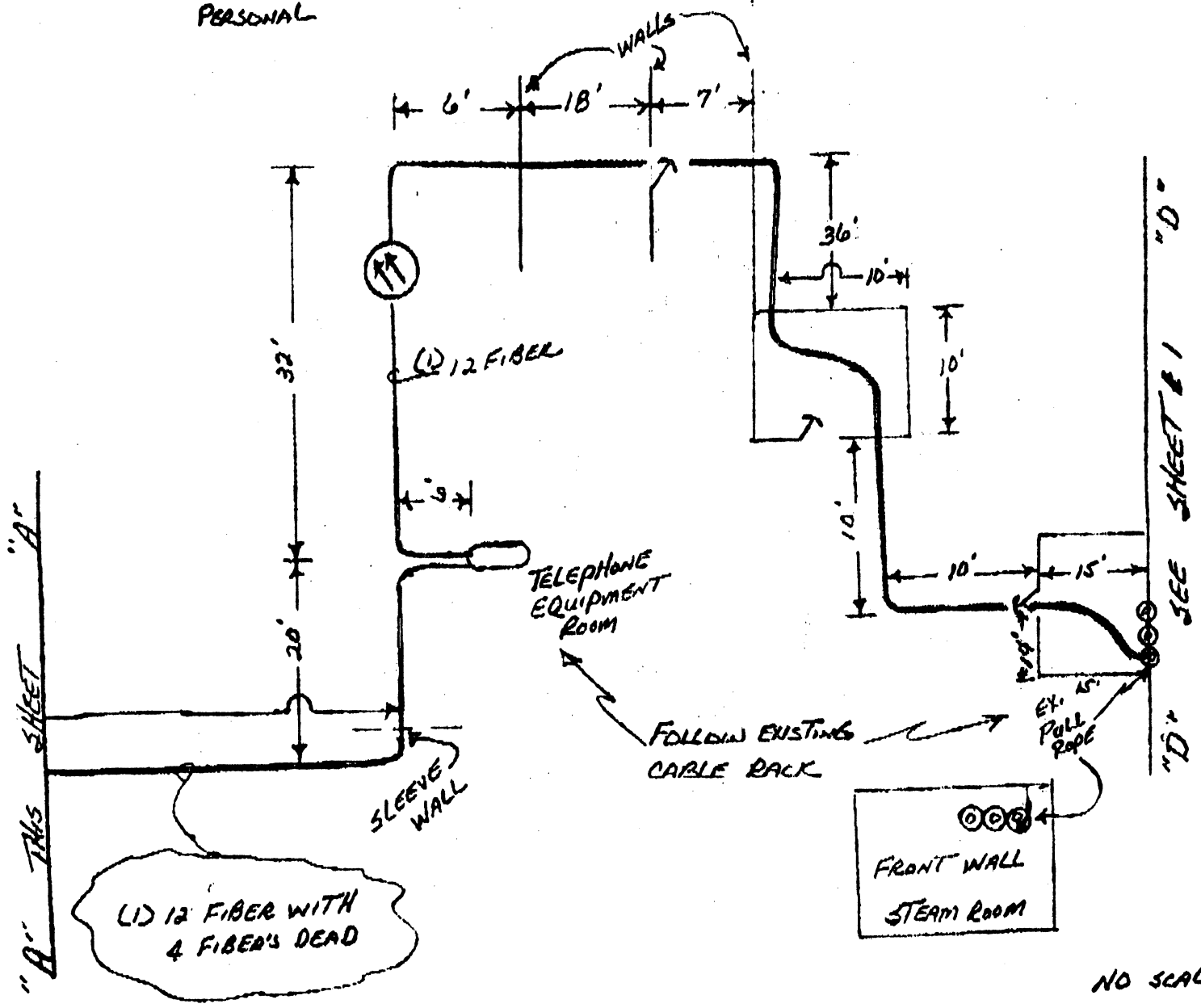
NOTE

IN COMPUTER ROOM  
ALLOW ENOUGH CABLE  
TO TERMINATE AT ANY  
LOCATION

REMOVE & REPLACE  
CEILING TILE

750 MAIN STREET

PER POLAROID  
PERSONAL

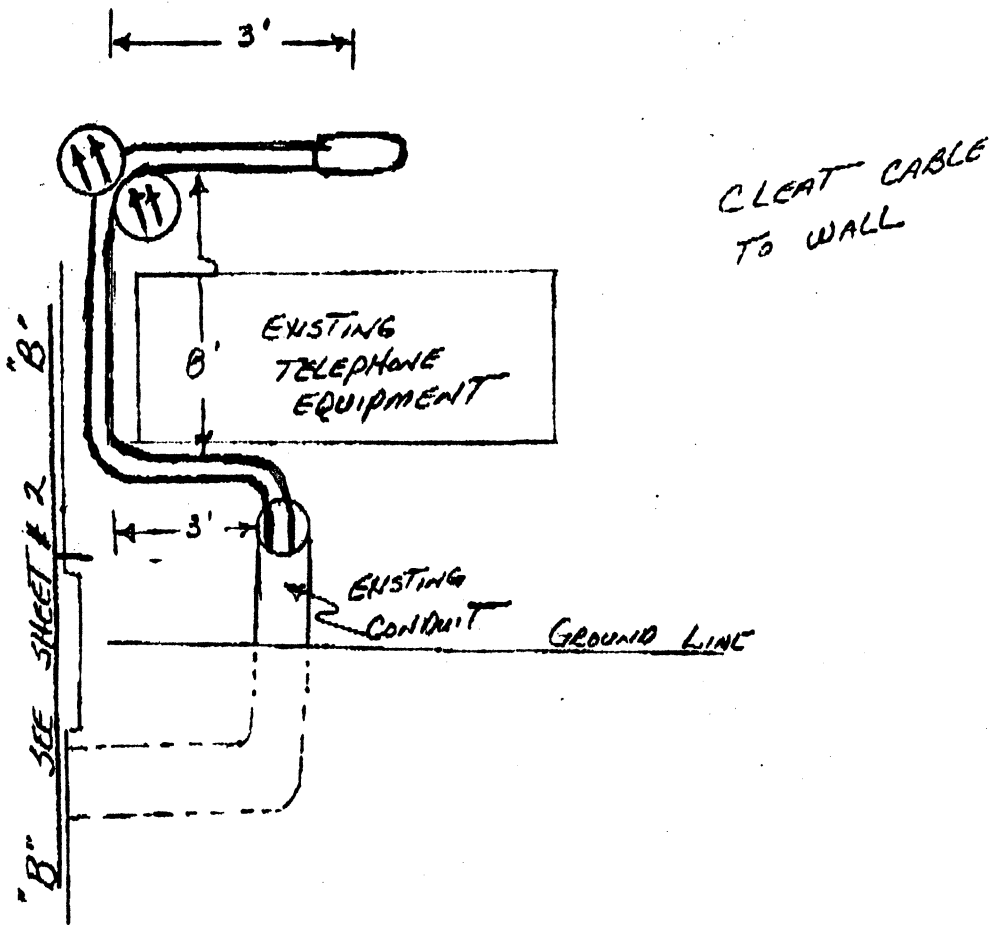


L12 FIBER WITH  
4 FIBER'S DEAD

TELEPHONE  
EQUIPMENT  
ROOM

FRONT WALL  
STEAM ROOM

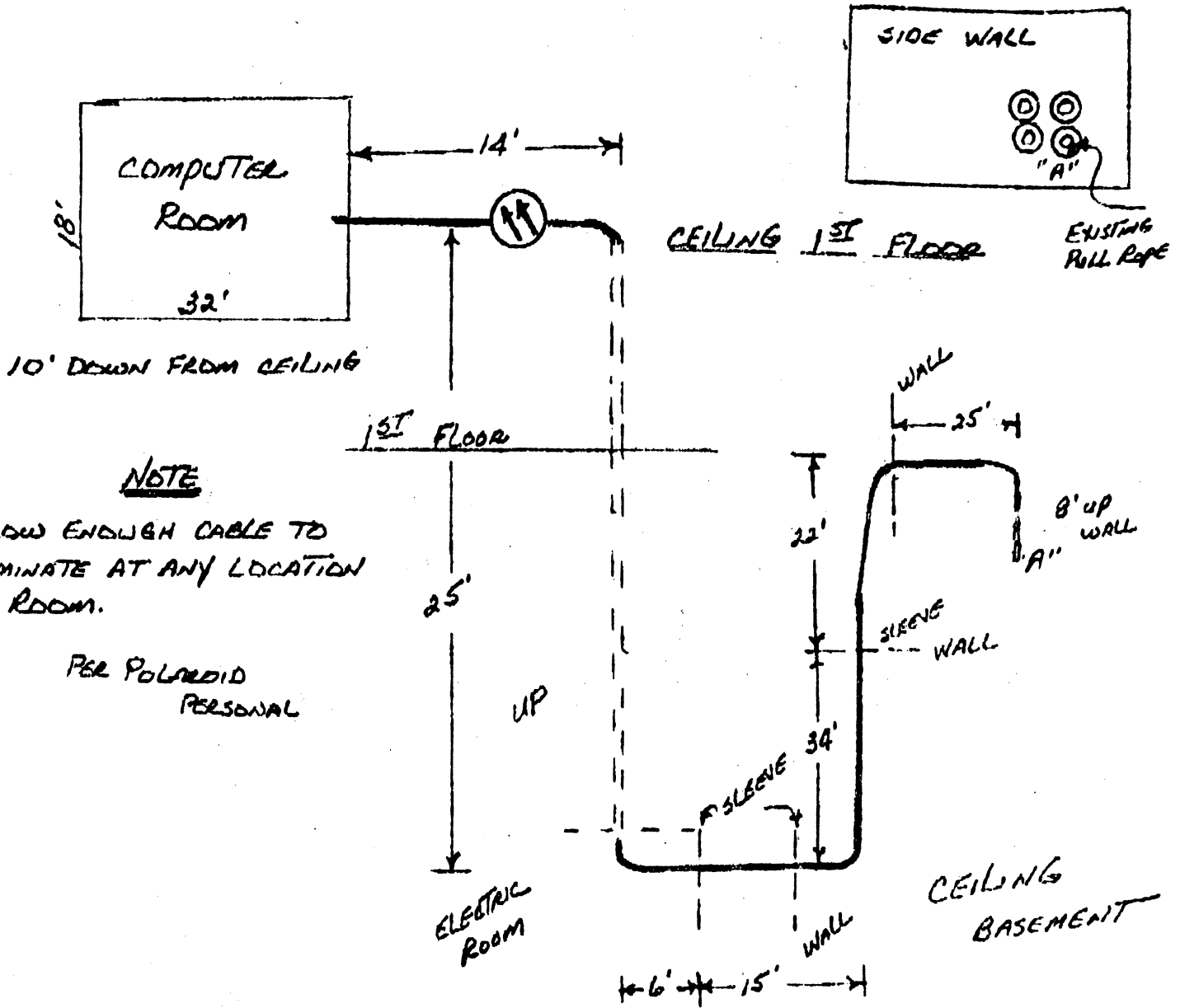
600 MAIN STREET



No 504.6

DUKE 5

# 565 TECH SQUARE



STRAP CABLE TO EXISTING CONDUITS

NO SCALE

SHEET # 6

# RACKEMANN, SAWYER & BREWSTER

PROFESSIONAL CORPORATION  
C O U N S E L L O R S A T L A W  
O N E F I N A N C I A L C E N T E R  
B O S T O N , M A S S A C H U S E T T S 0 2 1 1 1

AREA CODE 617-542-2300

TELECOPIER 617-542-7437

RICHARD H. LOVELL  
WILLIAM B. TYLER  
DAVID G. COLT  
GEORGE V. ANASTAS  
PETER W. KILBORN  
HENRY H. THAYER  
BRIAN S. MEYER  
JOSEPH L. SERAFINI  
STEPHEN CARR ANDERSON  
LAWRENCE E. KAFLAN  
ALBERT M. FORTIER, JR.  
MICHAEL F. O'CONNELL  
JOHN J. GRIFFIN, JR.  
STUART T. FREELAND  
RAYMOND J. BRASSARD  
ALAN B. RUBENSTEIN  
BARBARA KIND PERRY  
MARTIN R. HEALY  
RICHARD TELLER

OF COUNSEL  
ROGER B. TYLER  
ALBERT B. WOLFE  
AUGUST R. MEYER

COUNSEL  
HAROLD J. CARROLL

JAMES R. SHEA, JR.  
KEVIN J. TOOMEY  
BRIAN M. HURLEY  
MALCOLM PITTMAN  
JANET M. SMITH  
JOHN T. CARROLL  
PETER FRIEDENBERG  
RICHARD S. NOVAK  
CHRISTINE DONELAN HUBBARD  
JOHN J. O'BRIEN  
STEVEN J. MASTROVICH  
JAMES A. MORAN  
JANE H. PITT  
DANIEL J. OSSOFF  
ANN CLAFFEY  
BARBARA E. HUNT  
JOHN E. McELHINNEY  
JUDITH R. PIKE  
WILLIAM F. BRADY  
A. JAMES CASNER III  
NICOLE LACCETTI RIVES  
SANFORD M. MATATHIA  
RUTH R. ARONSON

September 18, 1985

City of Cambridge  
Cambridge City Council  
City Hall  
795 Massachusetts Avenue  
Cambridge, MA 02139

Attention: Mr. Paul Healy

RE: NYNEX Business Information Systems Company/Polaroid Corporation-Petition for Occupancy of Underground Conduit Facilities in Cambridge, Massachusetts

Dear Mr. Healy:

In reference to the above-captioned project, enclosed herewith please find (1) Polaroid's Petition for Occupancy of Existing Underground Conduit Facilities; (2) an informational cover letter to the City Council from NYNEX; (3) a proposed form of Order; (4) the form of Notice to be posted on the municipal bulletin board; (5) a pre-addressed envelope with enclosed Notice and informational material to be sent to New England Telephone and Telegraph Company ("NET"); and (6) a form of Certification.

I would appreciate your bringing this matter to the attention of the City Council so that it can be placed on the City Council's agenda as soon as possible. As stated in the informational cover letter to the City Council, it would be best if Polaroid's petition could be entertained at the meeting on the evening of September 30, 1985. Once a date has been selected would you please insert that date on the form of Notice, and notify me of the date.


Massachusetts General Laws ("M.G.L.") Chapter 166, Section 22 requires that notice of the meeting be given to the owner of the conduit facilities, in this case NET. Once this matter has been placed on the City Council's agenda, I would appreciate it

City of Cambridge  
Cambridge City Council  
September 18, 1985  
Page 2

if you would send the Notice and informational material out to NET in order to give NET a reasonable opportunity to prepare for the meeting. M.G.L. Chapter 39, Section 23B also requires that notice of the meeting be posted on the municipal bulletin board at least 48 hours, including Saturdays, but not Sundays and legal holidays, prior to the public meeting. After notice has been mailed and posted, I would appreciate it if you would fill out and sign the enclosed form of Certification and return it to me so that I will have a record for my files.

If you have any questions regarding this project, please do not hesitate to call. Thank you very much for your assistance.

Cordially,



Ruth R. Aronson

cc: Russell B. Higley, Esquire, City Solicitor  
Joseph Connarton, Deputy City Clerk

RRA:me  
2382A

PETITION FOR OCCUPANCY OF  
EXISTING UNDERGROUND CONDUIT FACILITIES

TO: City of Cambridge  
Cambridge City Council  
City Hall  
795 Massachusetts Avenue  
Cambridge, MA 02139

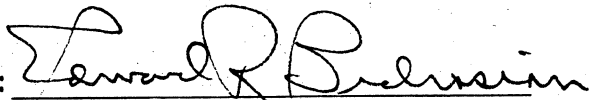
Attention: Mayor Francis H. Duehay

Polaroid Corporation ("Polaroid") respectfully requests permission to install a fiber optic communication cable within existing underground conduit facilities owned by New England Telephone and Telegraph Company located in the following public way or ways:

Main Street  
Portland Street

A plan showing the location of the existing underground conduit facilities within which said cables shall be installed is attached hereto.

POLAROID CORPORATION

By:   
Edward R. Bedrosian,  
Vice President and  
Treasurer

Dated this 18<sup>th</sup> day of September, 1985.



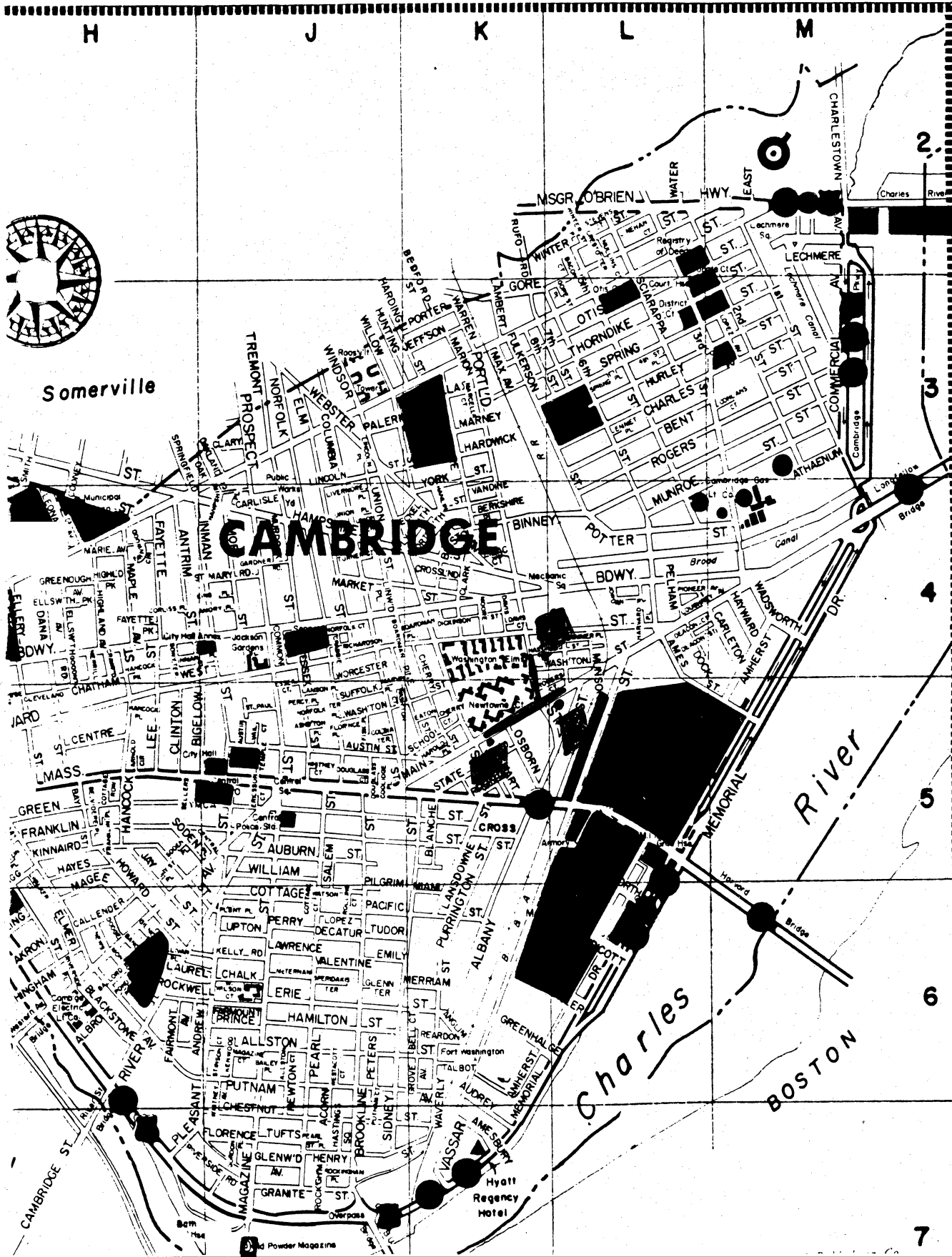
# C. BRENDON NOONAN & CO. Real Estate

Commercial • Industrial • Residential  
Appraisers • Auctioneers

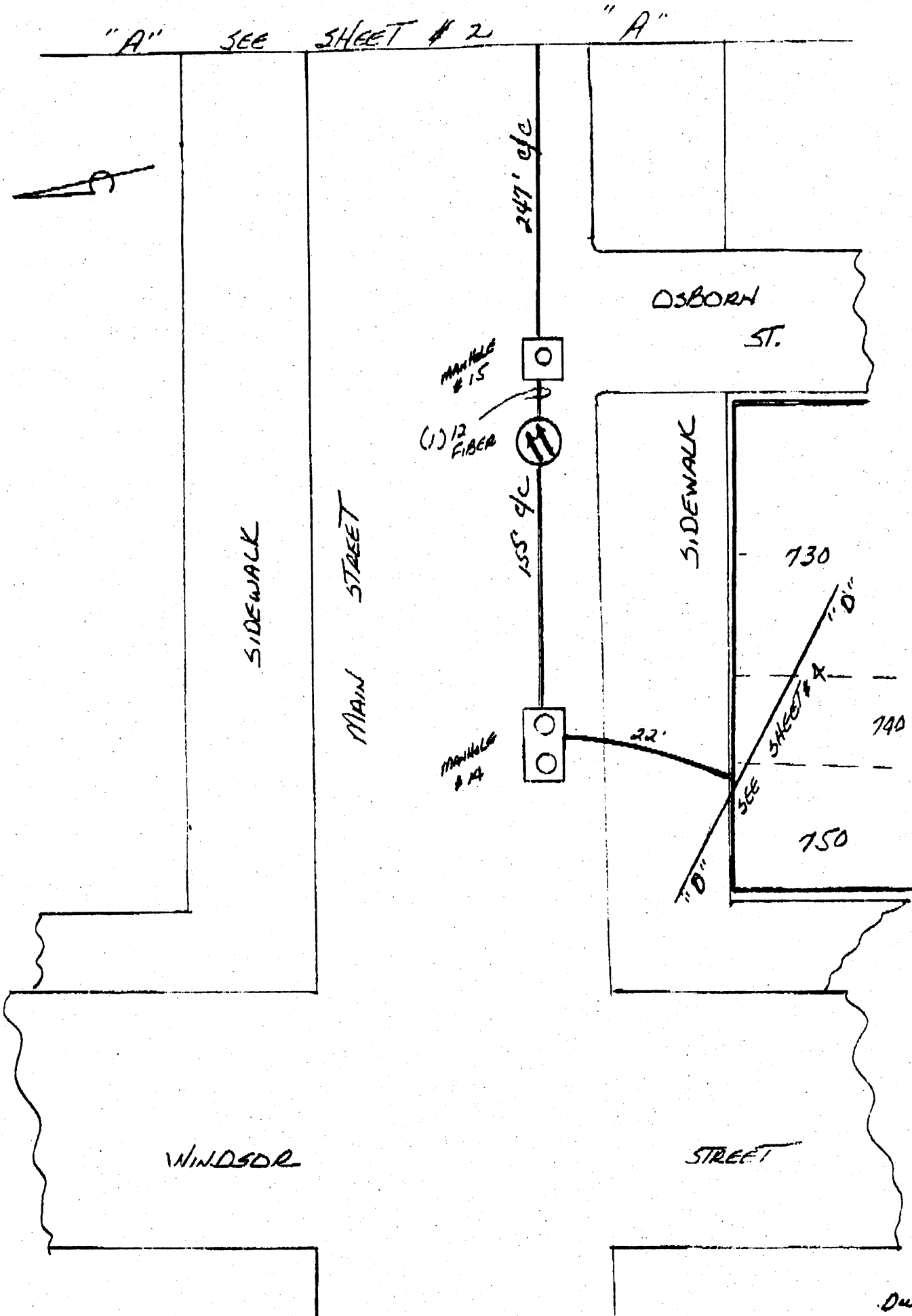
323 Broadway  
CAMBRIDGE, MA. 02139 (617) 876-3500

"A" 750 Main Street  
"B" 600 Main Street  
"C" 565 Tech Square

LOCATION OF EXISTING UNDERGROUND  
CONDUIT FACILITIES CONNECTING  
THREE POLAROID CORPORATION  
FACILITIES ("A", "B" and "C")  
IN CAMBRIDGE, MA

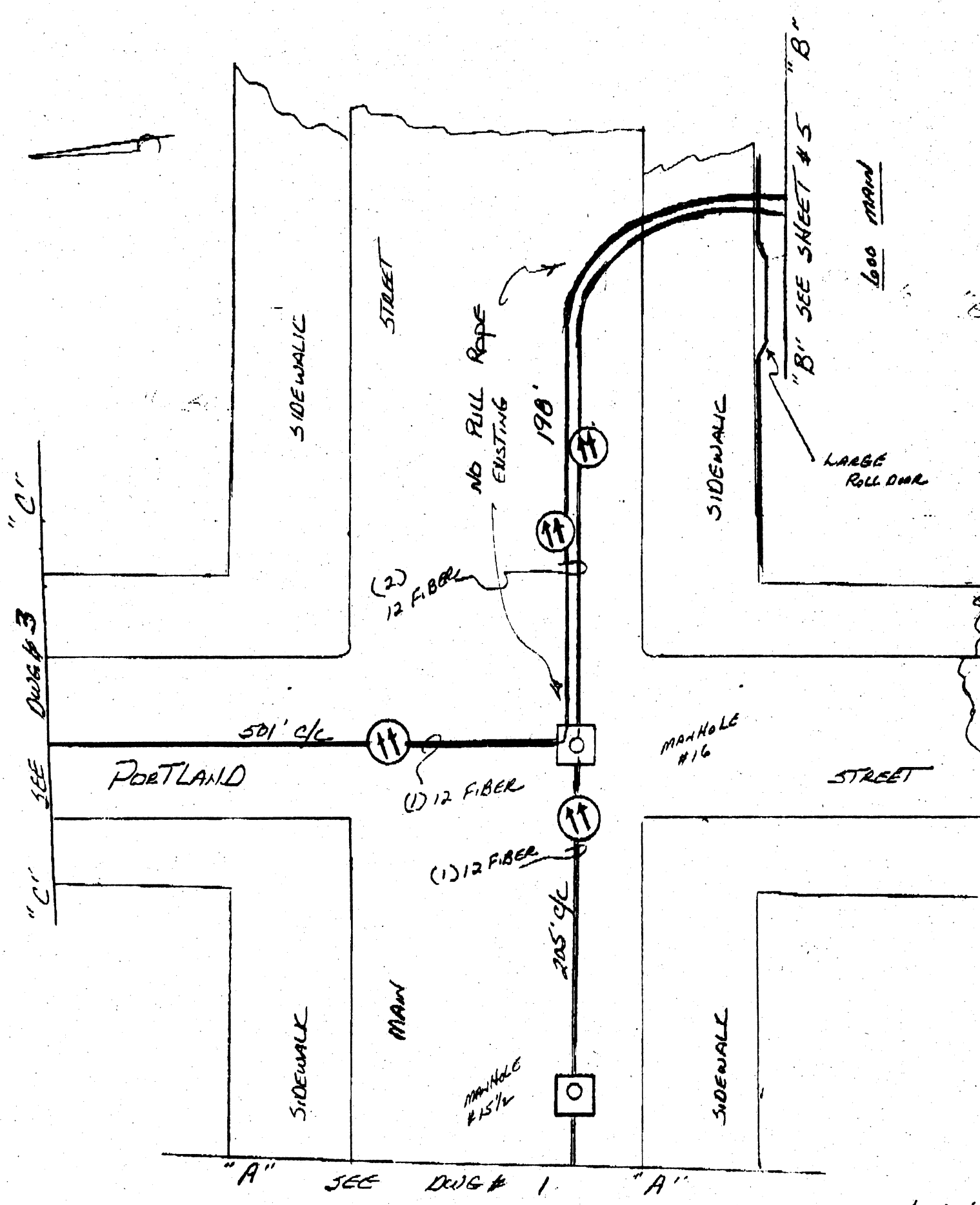


POLAROID CORP. - CAMBRIDGE



NO SCALE

DWG # 1



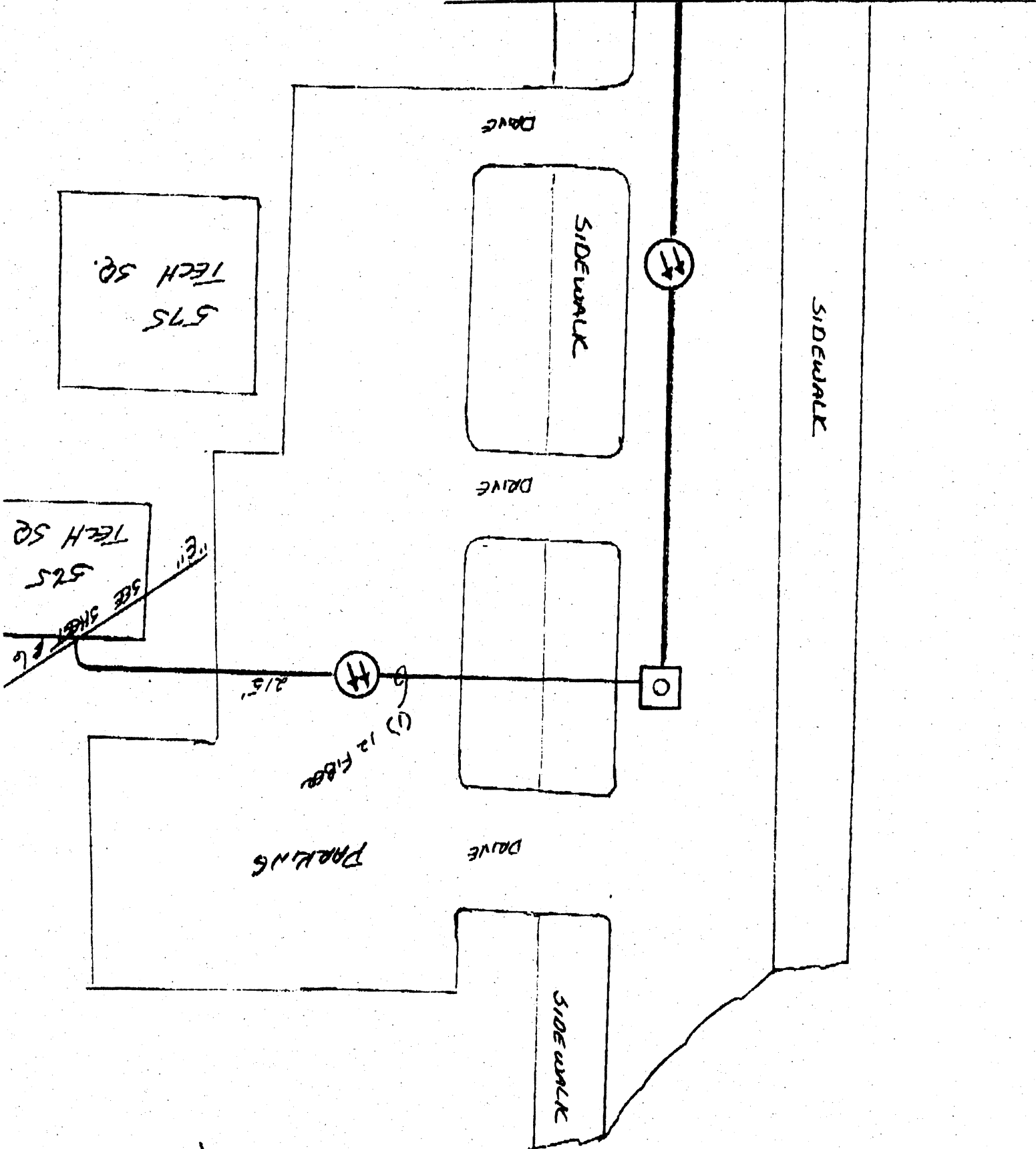
NO SCALE

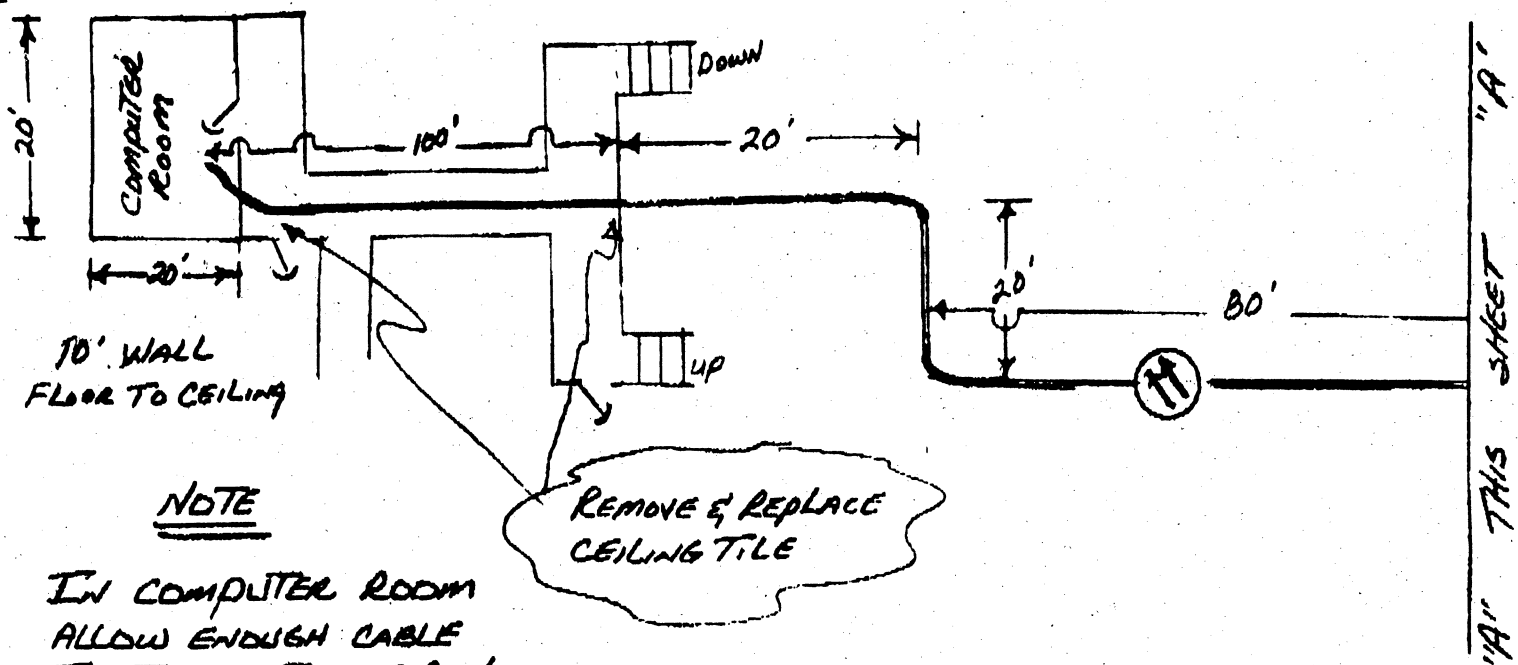
DWG # 9

SHEET # 3

No SCALE

"C" SEE SHEET # 2 "C"





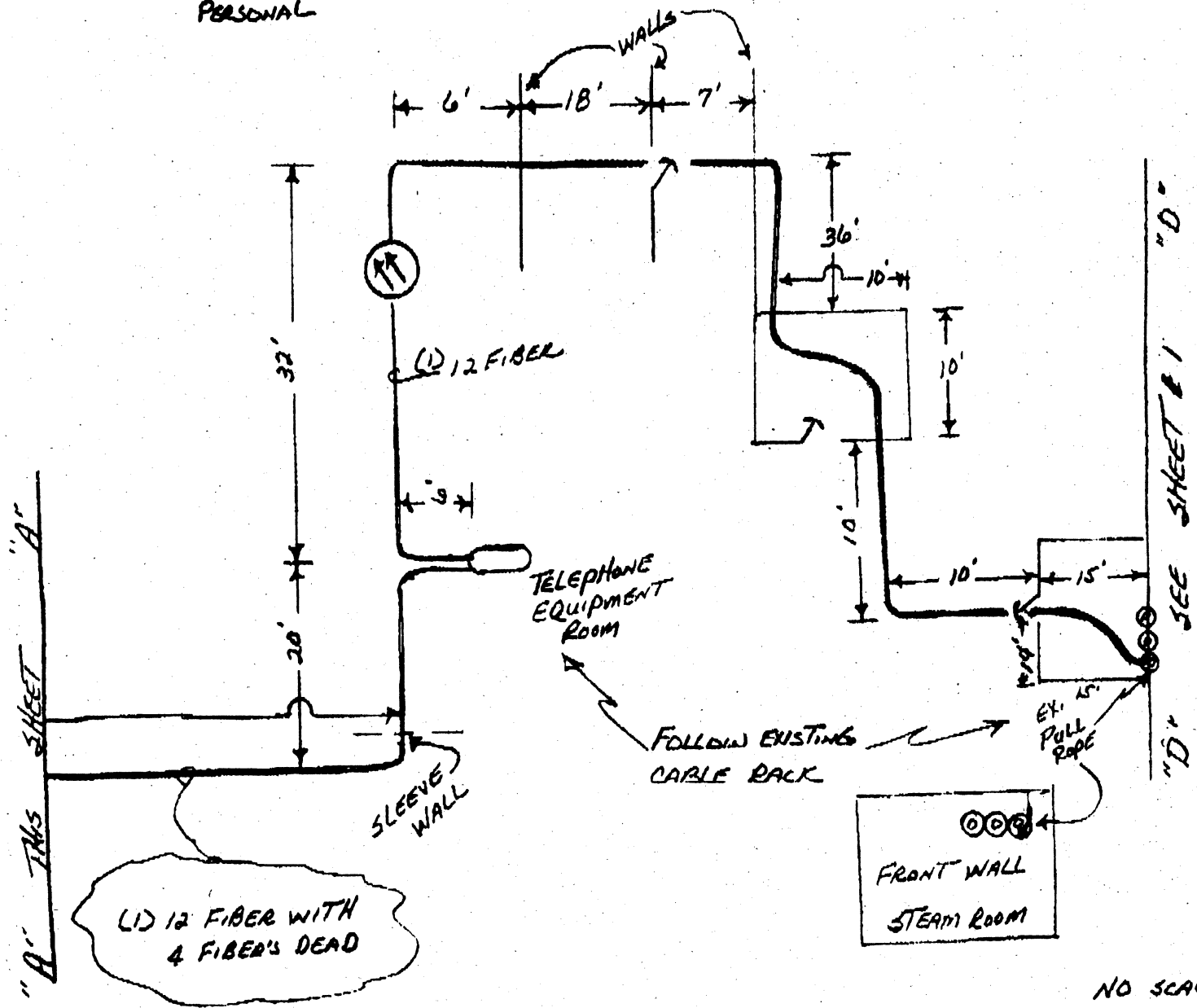
NOTE

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ALLOW ENOUGH CABLE  
TO TERMINATE AT ANY  
LOCATION

REMOVE & REPLACE  
CEILING TILE

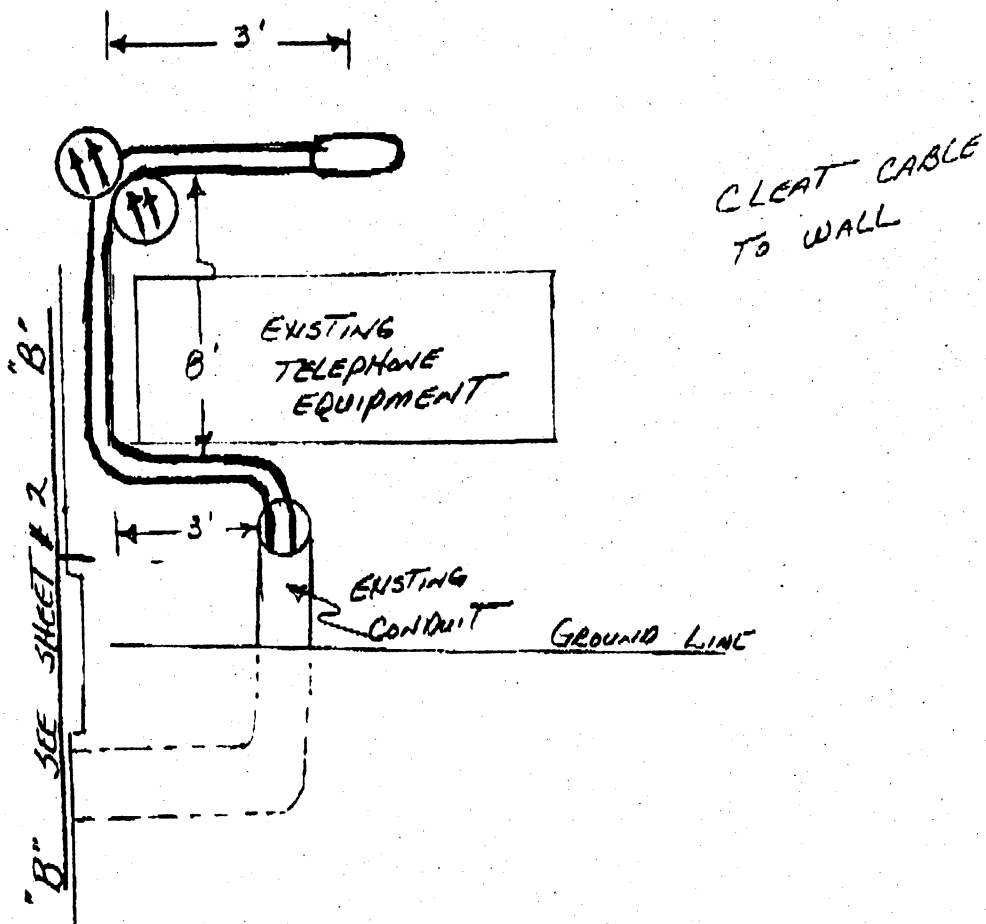
750 MAIN STREET

PER POLAROID  
PERSONAL



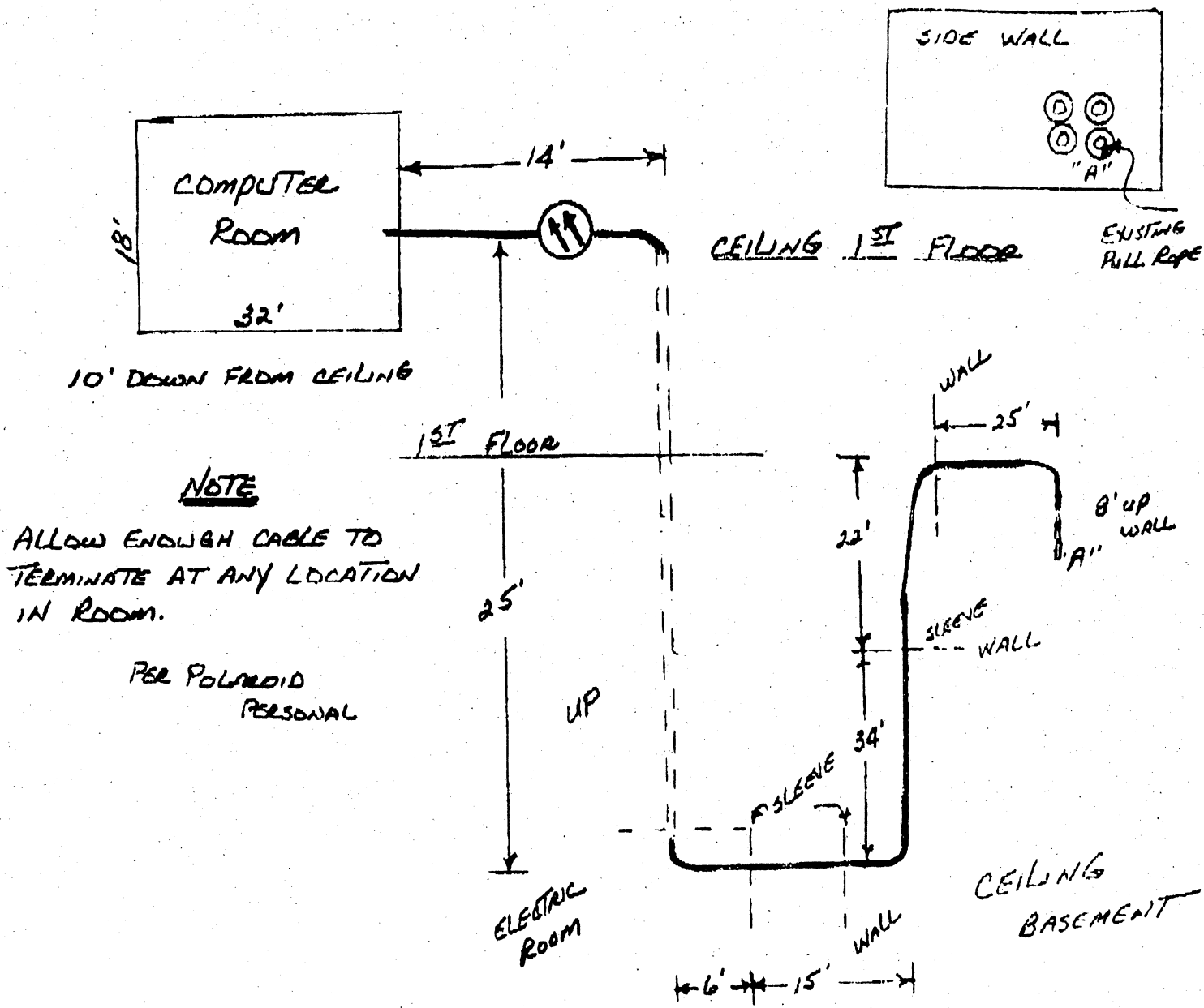
NO SCALE  
SHEET # 4

600 MAIN STREET



No 504.6  
DWG 5

# 565 TECH SQUARE



STRAP CABLE TO EXISTING CONDUITS

NO SCALE

SHEET # 6

Sales Division



September 18, 1985

City of Cambridge  
Cambridge City Council  
City Hall  
795 Massachusetts Avenue  
Cambridge, MA 02139

Attention: Mayor Francis H. Duehay, Chairman

RE: NYNEX Business Information Systems Company/Polaroid Corporation - Petition for Occupancy of Underground Conduit Facilities in Cambridge, Massachusetts

Dear Mayor Duehay:

NYNEX Business Information Systems Company ("NYNEX") respectfully submits the enclosed petition on behalf of Polaroid Corporation ("Polaroid") pursuant to Massachusetts General Laws ("M.G.L.") Chapter 166, Section 22 for permission to place fiber optic cable in existing underground conduit facilities owned by New England Telephone and Telegraph Company ("NET") located in the public way. M.G.L. Chapter 166 Section 22 provides in part that "after the erection or construction of such line, the board of aldermen or board of selectmen may, after giving the company or its agents an opportunity to be heard, or upon petition of the company without notice or hearing, by order permit an increase in the number of wires or cables, and direct an alteration in the location of the poles, piers, abutments or conduits or in the height of the wires or cables." Our attorneys, Messrs. Rackemann, Sawyer & Brewster were informed by Joseph Connarton that the City Council will entertain Polaroid's petition at one of the Council's regularly scheduled meetings. NYNEX respectfully requests that Polaroid's petition be placed on the City Council's agenda for September 30, 1985.

I. Introduction

NYNEX has been retained by Polaroid to supply and install fiber optic cable to connect three of Polaroid's facilities in Cambridge, Massachusetts. The cable will facilitate high-speed voice and data communications between Polaroid's facilities.

It is expected to take approximately three days to install the cable. In order to facilitate Polaroid's needs, the system must be operational by October, 1985. Polaroid will own the line after installation and will pay NET, as the owner of the conduit facilities, a user fee under the terms and conditions of a conduit facilities occupancy agreement. Plans and specifications for the cable, including a map showing the street locations for the cable, are enclosed herewith.

## II. Description of Cable and Work to be Performed

The fiber optic cable, manufactured by Fibronics International Incorporated, will be installed in existing conduit facilities owned by NET. The fiber will be a 100/140 micron graded-index multimode fiber. The fiber design consists of a germanium doped core and a silica cladding. A dual construction protective coating is applied over the fiber cladding to cushion the fiber against microbending losses, provide abrasion resistance, and preserve the mechanical strength of the glass. Each fiber is proof tested so that it will survive the installation loads and the associated long term residual stresses, even under extreme environmental conditions. Each fiber is measured for optical and dimensional properties for compliance with the manufacturer's specifications. The nonmetallic 12-fiber stranded cable is less than three-quarters of an inch in diameter.

## III. Installation and Maintenance of the Cable

The proposed method of installation will involve opening five existing manholes and inserting the cable into existing interducts located in the underground conduit facilities. The installation of the cable will comply with the standards imposed by NET, and the National Electric Safety Code.

The fiber optic cables will be installed by Henkels & McCoy, Inc. under contract to NYNEX. A copy of the firm's resume is enclosed herewith. Henkels & McCoy, founded in 1923, is a highly diversified multinational engineering and construction company headquartered in Blue Bell, Pennsylvania. Henkels & McCoy maintain a satellite office in Braintree, Massachusetts. They are the largest independently owned telecommunications management, engineering, construction, training and maintenance company in the United States with gross annual revenues in excess of a quarter of a billion dollars.

Henkels & McCoy have almost 60 years of construction experience servicing utility companies and over 30 years of experience in CATV systems installation. The work to be performed for Polaroid will be directed by a full time on site Henkels & McCoy field supervisor.

It is expected that remedial and preventive maintenance of the cable network will be performed by Henkels and McCoy under contract to Polaroid. Remedial maintenance will be provided on a 24 hour per day, 365 day per year basis. Minor problems that are not service affecting will be responded to within 24 hours. Major problems will be responded to promptly. Preventive maintenance will be performed on a prearranged schedule so as to minimize disruptions.

IV. Polaroid to Obtain Permission from NET to Utilize Existing Underground Conduit Facilities

The project will involve only the placement of a cable in existing underground conduit facilities. NYNEX is presently negotiating a License Agreement for Occupancy of Underground Conduit Systems with NET to authorize Polaroid's use of the conduit facilities.

V. Conclusion

NYNEX will take all required safety procedures to insure that the cable will be installed safely and without any unnecessary inconvenience or interruption to users of the public ways under which the cable is proposed to be located. NYNEX respectfully requests that its petition on behalf of Polaroid to install such fiber optic cable in the public way in accordance with the plans and specifications enclosed herewith be approved by the City Council.

Very truly yours,

NYNEX Business Information  
Systems Company

By:   
Frederick B. Peirce  
Project Manager

Enclosures

cc: (w/encls.)

Russell B. Higley, Esq., City Solicitor  
Michael C. Costello, Esq., Assistant City Solicitor  
Robert Healy, City Manager  
George Fernandez, City Electrician  
Anthony Paolillo, Police Chief  
Thomas Scott, Fire Chief  
Everett Kennedy, Commissioner of Public Works

2377A

# HENKELS & McCOY

Jolly Road  
Blue Bell, Pennsylvania 19422  
(215) 283-7600

## HENKELS & McCOY - STATEMENT OF QUALIFICATIONS

### THE COMPANY

Founded in 1923, Henkels & McCoy is the largest independently held telecommunications engineering, construction and maintenance firm in the United States. Through 20 divisions with permanent offices and operations facilities strategically located across the nation, Henkels & McCoy offers one of the largest service networks of qualified individuals and state-of-the-art equipment available in the communications industry. Our staff of more than 5300 highly experienced engineering and technical personnel provides the resources necessary to design and service your communications system - regardless of its size, from facilities analysis and engineering to its installation and maintenance.

Over the years, Henkels & McCoy has established a reputation for quality performance—the inevitable result of responsible supervision and expert craftsmanship. One measure of our capability in the communications industry is that we installed over 12 million telephones for the operating telephone companies prior to industry deregulation. With deregulation, we have made this nationwide capability available to the telephone end-user.

Among our largest clients are American Telephone & Telegraph Company and the independent telephone companies, General Telephone & Electronics, United Telecommunications, Continental Telephone, and others which employ on a contract basis over 1,500 of our engineers and craftsmen. In addition, we serve the major and most of the minor independent telephone operating companies in the United States.

In addition to our work for the operating telephone utilities, we are involved on a national basis in the area of private telephone service for a variety of clients. We are prepared to consult, design, install and service electronic key and PABX systems of any size, including outside and inside plant.

We are experienced in the engineering, construction, training and maintenance of complex Central Office, Outside Plant and Interconnect projects and utilize the latest telecommunications technology as manufactured by the world's major suppliers.

We are accustomed to successfully working in adverse foreign environments, on complex projects requiring a high degree of interface utilizing the latest computerized management techniques (CPM, PERT, etc. al.) to achieve desired goals.

### EXPERIENCE

#### A. GENERAL

Henkels & McCoy for many years, has served all the major and most of the minor telephone operating companies in the United States.

We have installed over 12,000,000 telephones and the necessary outside Plant and Central Office to insure their function. This represents more telephones than presently exist in New York City, Chicago and Washington D.C. combined.

Billings to the telephone companies for our services in the past five years exceeds \$400,000,000.

Daily, we provide technicians to the operating companies to construct and/or maintain their systems. These technicians routinely perform service such as:

- Installation of central office equipment, PBX's and station equipment.
- Installation of outside plant
- Splicing
- Cable plowing
- Duct systems
- Pole lines
- Microwave
- CATV
- Fiber Optics
- Direct buried cable

These forces have engineering support thoroughly qualified to design the systems we install. They are extremely knowledgeable in:

- All forms of outside plant, central office and interconnect projects
- Training
- Network Design - Local Area Networks
- Records Reconciliation
- Operating Assistance
- Inspection and Supervision Services

## **B. NATIONAL**

We have been a prime or subcontracting source for many private telecommunications projects across the country as the partial list illustrates:

### Subcontracts

#### **Las Vegas, Nevada**

Subcontracted to Centel for installation of private switching systems for major hotels/casinos (MGM Grand, Ceasars Palace, Circus Circus, Hacienda, etc.). Over 10,000 lines.

#### **Hollywood, California**

Subcontracted to Com Systems to design and install duct system, outside and inside cable/wire facilities, as well as, station installation (Burbank and MGM Studies). Over 10,000 lines.

#### **Clairmont, California**

Subcontracted to Com Systems to assist in traffic and system clean-up, both outside and inside plant, at Clairmont College. Over 3,500 lines.

State of New Mexico and Westinghouse in Pittsburgh, PA  
Subcontracted to GTE BCS for outside and inside Cable and wire design and  
installation of 20,000 plus lines.

Henkels & McCoy has designed, installed and maintained numerous client telephone  
systems. Following are a few of our systems in the Northeastern United States:

Bay Banks  
Faulkner Hospital  
Good Samaritan Hospital  
Norton Company  
Boston City Hospital  
John Hancock Insurance  
Kelsey Hayes  
Leonard Silver Company  
Presbyterian Hospital

The complete list includes customers from all areas of business and industry, in most  
major U.S. cities (available upon request).

Our National Account customers include firms such as K Mart, Kelly Services,  
Johnson & Johnson, Lomas & Nettleton, American Express, Merrill Lynch, American  
Standard, Nashua Corp, and Pitman Moore to name a few.

### C. INTERNATIONAL

In addition to domestic projects, some overseas work Henkels & McCoy recently  
completed includes the following:

#### Saudi Arabia

Provided over 100 engineers and craftsmen to ARAMCO for planning, design,  
installation and maintenance of telephone systems.

#### Iran

Participated in a joint venture project worth \$300 million dollars to install  
288,000 lines of additional telephone capacity in Outside Plant for 58 towns  
through the Provinces.

#### Nigeria

Total inside and outside plant cable installation of 112 miles including all  
equipment from the switch to telephone instruments at Mohammed Murtala  
International Airport in Lagos. Training and maintenance programs are still in  
progress.

#### China

Provided engineering, installation supervision, training and distribution of  
cable/hardware supplies in a joint venture with GTE-International for a GTD  
10000 - 700 plus station interconnect project for Jian Guo Hotel in Beijing,  
P.R.C.

D. TRANSMISSION SYSTEMS

Our telecommunications experience also includes construction of transmission systems such as:

Microwave

Henkels & McCoy has performed site preparation, building foundation and structure with associated back-up systems for:

MCI - 26 sites as prime contractor  
TVA - 9 sites as subcontractor

Fiber Optics & CATV

Henkels & McCoy has been involved with the design and installation of fiberoptics cable for more than five years. Our work has included the field design of over 255 miles of fiberoptic cable for the MCI Corporation and 25 miles for Southern Pacific Communications. We have also placed fiberoptic cable in aerial, underground and buried installation for a half dozen operating telephone companies. Our work has also involved splicing of the light guide, repeater placement and termination.

Our engineering and construction forces have also designed and placed hundreds of miles of CATV coaxial cable across the country. This has included projects in Phoenix, Portland, Omaha, Philadelphia and Dallas. We can work from the head end through to the subscriber connection.

E. THIRD PARTY MAINTENANCE

Third Party Maintenance has evolved in response to the deregulation of the telephone industry, and the growing need for a "sole source" company with the experience and the resources to install and maintain major corporate communications systems.

To accomplish this goal Henkels & McCoy employs a communications staff comprised of:

Civil Engineers  
Communications Engineers  
Communications Consultants  
Computer Operators  
Customer Service Representatives  
Data Communications Specialists  
Data Communications Consultants  
Draftsmen  
Electrical Engineers  
Estimators  
Journeyman Technicians  
Mechanical Engineers  
Project Managers; Voice & Data  
Specification Writers  
Structural Engineers  
Surveyors

Each Area Office includes installation, maintenance, training and administrative personnel. These include:

San Francisco, California  
Hartford, Connecticut  
Tampa, Florida  
Boston, Massachusetts  
Worcester, Massachusetts  
Grand Rapids, Michigan  
Lansing, Michigan  
Portland, Oregon  
Philadelphia, Pennsylvania  
Salt Lake City, Utah  
Richmond Virginia  
Kennewick, Washington  
Seattle, Washington  
Spokane, Washington

Some additional Henkels & McCoy offices providing direct services include the following:

Phoenix, Arizona  
Los Altos, California  
Menlo Park, California  
Denver, Colorado  
New Castle, Delaware  
Fort Myers, Florida  
Jacksonville, Florida  
Miami, Florida  
Tallahassee, Florida  
Boise, Idaho  
Salem, Illinois  
Elkhart, Indiana  
Indianapolis, Indiana  
Kansas City, Kansas  
Lebanon, Kentucky  
Monroe, Louisiana  
Baltimore, Maryland  
Rising Sun, Maryland  
Alpena, Michigan  
Detroit, Michigan  
Helena, Montana  
Lincoln, Nebraska  
Omaha, Nebraska  
Burlington, New Jersey  
Albuquerque, New Mexico  
Goldsboro, North Carolina  
Shelby, North Carolina  
Columbus, Ohio  
Oklahoma City, Oklahoma  
Eugene, Oregon  
Pendleton, Oregon  
Pittsburgh, Pennsylvania  
York, Pennsylvania  
Chattanooga, Tennessee

Dallas, Texas  
Houston, Texas  
Lewisville, Texas  
Milwaukee, Wisconsin  
Casper, Wyoming

Localities not listed are serviced through our many other facilities to insure complete cost effective National coverage, (complete listings available).

Notable current projects include

- Merrill Lynch; Consulting and Project Management at new campus complex in Plainsboro, NJ (6 bldgs)
- Cornell University; Consultants/Engineering
- Drexel University; Consultants/Engineering
- MCI; engineering design and installation of Fiber Optic Cable from Washington D.C. to New York
- IBM; Installation and Maintenance of 6600 line PBX in Manassas, Virginia
- Bell; Installation of PBX for Marketing arm of Bell Atlantic in Princeton, NJ
- ATT Communications; Engineering, design and installation of Fiber Optic Cable from Chicago to Harrisburg, Pa.

**PERFORMANCE HAS BUILT OUR BUSINESS...**

Over the past six decades, Henkels & McCoy has served a diverse number of clients worldwide. As our company has grown, we have continued to provide the best and most timely service possible in every endeavor we undertake. We are proud of our long list of clients—including our first two—who continue to turn to Henkels & McCoy because of our excellent capabilities. The reputation we have built over the years continues to be the standard by which we do our work. Clearly, our business has been built on the quality of our performance. We extend to you this same commitment to quality in the design, project management, installation and maintenance of your communications system.

ACCEPTANCE

Polaroid Corporation hereby accepts without reservation the above Order of the City Council adopted on the 7th day of October, 1985, with the conditions, terms and provisions contained therein and the ordinances of the City and future amendments therof. Polaroid further agrees to carry out, observe, perform and be subject to the same.

POLAROID CORPORATION

Dated:

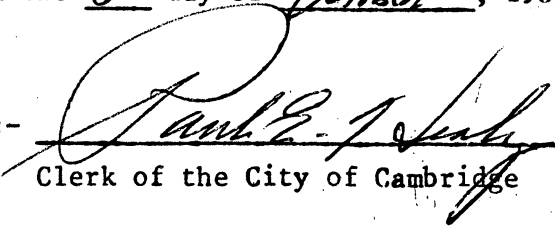
By: \_\_\_\_\_

Edward R. Bedrosian  
Vice President and  
Treasurer

CERTIFICATION

I HEREBY CERTIFY that the full executed Order was recorded in accordance with the requirements of M.G.L. Chapter 166, Section 22, in books kept exclusively thereafter in the office of the City Clerk on the 7th day of October, 1985.

ATTEST:-

  
Clerk of the City of Cambridge



# City of Cambridge

17.

COUNCILLOR WALTER SULLIVAN

IN CITY COUNCIL

October 7, 1985

ORDERED: Pursuant to Massachusetts General Laws (M.G.L.) Chapter 166, Section 22, the undersigned hereby grant permission to Polaroid Corporation to install a fiber optic communication cable within existing underground conduit facilities owned by New England Telephone and Telegraph Company ("NET") located in the following public way or ways:

Main Street  
Portland Street

Along the route substantially shown on the attached plan filed with the City Council.

<u>Alfredo LaRosa</u>	<u>Alan P. Wolf</u>
<u>Thomas W. Donohy</u>	<u>Daniel J. Clinton</u>
<u>David E. Sullivan</u>	<u>Sandra Sheehan</u>
<u>Kathleen J. Sullivan</u>	<u>Joseph Bellucci</u>
	<u>Wm. H. Aubrey</u>

In City Council October 7, 1985  
Adopted by a ye and nay vote:-  
Yeas <sup>9</sup>; Nays <sup>0</sup>; Absent <sup>0</sup>.  
Attest:- Paul E. Healy, City Clerk.

A true copy;

ATTEST:-

Paul E. Healy  
Paul E. Healy, City Clerk

CERTIFICATION

I HEREBY CERTIFY that the foregoing Order was adopted by the City Council at a meeting of said Council held on the 7th day of October, 1985, that said meeting was duly noticed in accordance with the requirements of M.G.L. Chapter 39, Section 23B, and that notice was given to New England Telephone and Telegraph Company as owner of the underground conduit facilities.

Attest:-

Paul E. Healy  
Clerk of the City of Cambridge.

Order #17

5-710

C.W. Sullivan

Re: order adopted after hearing on the petition of NYNEX Business Information Systems Co. pursuant to Chapter 166, Sec. 22 M.G.L. granting permission to Polaroid Corp. for installation of fiber optic communication cable within existing underground conduit facilities owned by New England Telephone & Telegraph Co. on Main St. & Portland St. in the public way.

In City Council,

October 7, 1985

10/7/1985

CWS  
Order

RLS  
RM  
A      Adopted  
9-0-0