

MULTIPLE

Y,G,B

Janice M. Winfrey
City Clerk

City of Detroit
OFFICE OF THE CITY CLERK

Andre P. Gilbert II
Deputy City Clerk

DEPARTMENTAL REFERENCE COMMUNICATION

Wednesday, August 12, 2020

To: The Department or Commission Listed Below

From: Janice M. Winfrey, Detroit City Clerk

The following petition is herewith referred to you for report and recommendation to the City Council.

In accordance with that body's directive, kindly return the same with your report in duplicate within four (4) weeks.

PLANNING AND DEVELOPMENT DEPARTMENT DPW - CITY ENGINEERING DIVISION

1308 *ExteNet Systems Inc., request to encroach into E Atwater St, Gratiot Ave, Broadway St and Schoenherr St for purpose of installing telecommunications cabinets*

2 Woodward Ave. Coleman A. Young Municipal Center Rm. 200, Detroit, MI 48226

(313) 224 - 3260 | Fax: (313) 224 - 1466



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

1308

COLEMAN A. YOUNG MUNICIPAL CENTER
2 WOODWARD AVE. SUITE 601
DETROIT, MICHIGAN 48226
PHONE: (313) 224-3949 • TTY: 711
FAX: (313) 224-3471
WWW.DETROITMI.GOV

To: Clerk's Office
From: The Department of Public Works
City Engineering Division
MapsandRecordsBureau@DetroitMI.Gov
(313) 224-3970

Petitioner:
David Schneider
On behalf of: ExteNet Systems, Inc
National Operations Center
3030 Warrenville Road, Suite 340
Lisle, IL 60532

On behalf of the above mentioned petitioner the Department of Public Works: City Engineering Division is submitting a petition request for the below mentioned action. The petitioner has received a project consultation from the Department of Public Works: City Engineering Division and has been advised the following:

Type of action recommended:

Petition to encroach into East Atwater Street, Gratiot Avenue, Broadway Street, and Schoenherr Street for the purpose of installing Small Cell Telecommunications Network Electrical Cabinets.

Based on the scope of the project the following requirements have been outlined:

- No further requirements noted.

Sincerely,

Jered Dean
Manager II
Maps and Records Bureau



Mobile
Connectivity
Everywhere

July 24, 2020

Detroit City Council
City Council Office
2 Woodward Ave. Suite 1340
Detroit, MI 48226

Re: ExteNet Systems, Inc. - Petition for Rights-of-Way Encroachments for
Four Electrical Cabinets, associated electrical components, and
mounting equipment as required

Dear Honorable members of the Detroit City Council:

ExteNet Systems has been installing a Small Cell Telecommunications Network within the Rights-of-Way in Detroit for the past two years; pursuant to authority accorded by the Michigan Metro Act, and approvals and permits granted by the City of Detroit.

The purpose of this request is to place four Alpha Electrical Cabinets, and associated components and equipment to provide power supply to several of the small cells related to the network. The result of placing these four cabinets will result in the elimination of the necessity for open trenching, along with disruption to the City and Citizens.

The four cabinet locations are :

- South side of E Atwater Street, at Civic Center Drive
- East side of Gratiot Avenue, south of Randolph Street
- In the median within Broadway Street, west of John R Street
- East side of Schoenherr Street, south of E 7 Mile Road

Detroit City Council - page 2

The cabinets will be monitored and managed by:

ExteNet Systems, Inc
National Operations Center
3030 Warrenville Road, Suite 340
Lisle, IL 60532

ExteNet has appreciated working with City staff for over a decade providing quality telecommunications infrastructure within the City of Detroit, and we look forward to our continued relationship with the City.

Please feel free to contact me (734-536-3081) if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "David W. Schneider". The signature is written in a cursive style with a long horizontal stroke at the end.

David W. Schneider
Director, External Affairs

APPLICANT
net VOLVOBUS
 SYSTEMS INCORPORATED
 3000 Riverchase Blvd, Suite 300
 Lake Park, IL 60032
 www.netinc.com

ARCHITECT/ENGINEER
VERITA
 COMMERCIAL DESIGN & CONSTRUCTION
 47259 Elm Mt Road
 Plymouth, MI 48170

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	4/1/2009	PERMITTING	J.A.
2	4/1/2009	PERMITTING	J.A.
3	4/1/2009	PERMITTING	J.A.

PROFESSIONAL STAMP

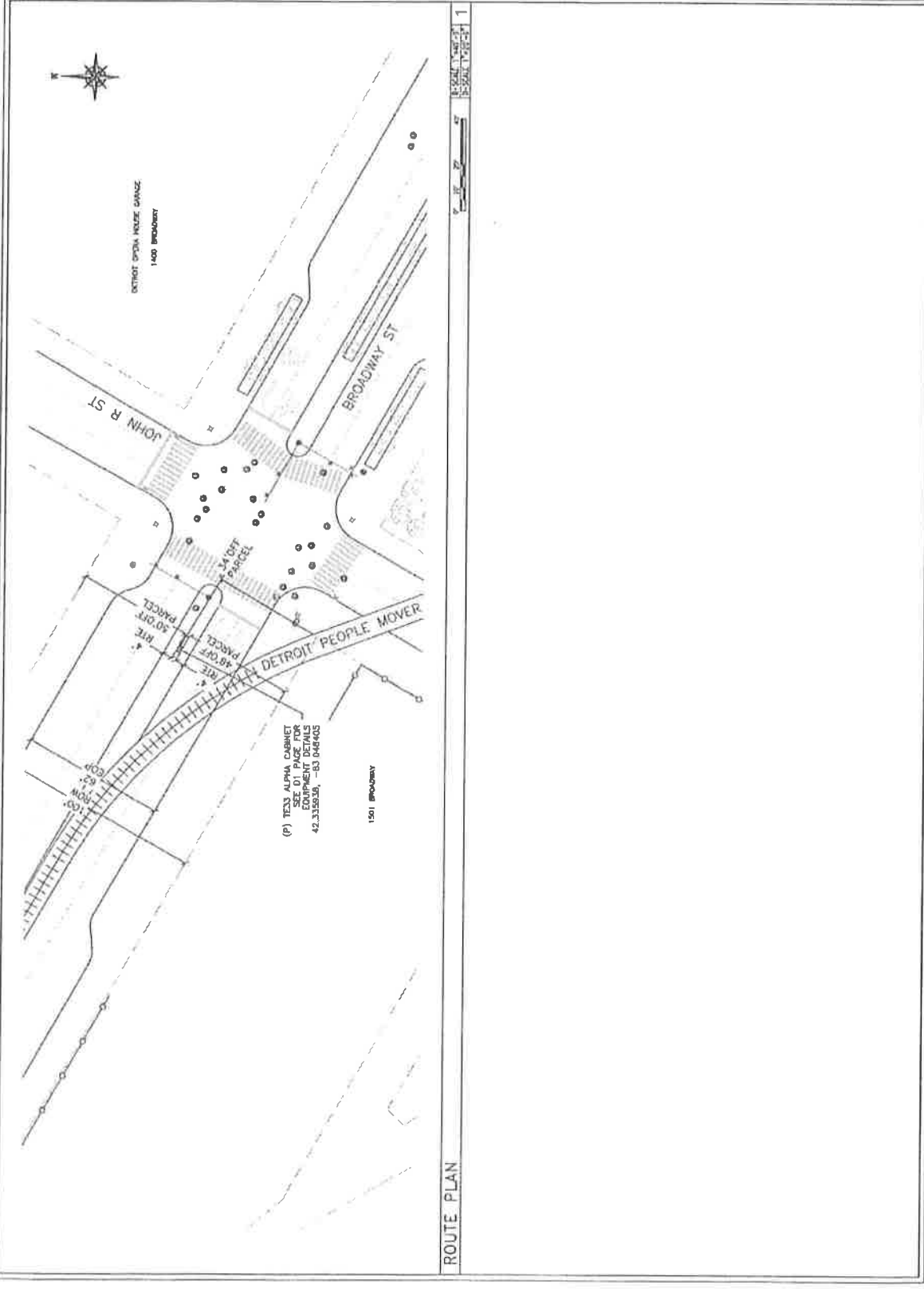
ISSUED FOR PERMITTING

PROJECT NAME:
 NC-MI-DTBUND-TMO
 DEYH006A

PROJECT LOCATION:
 1501 Broadway
 Detroit, MI 48201

SHEET TITLE:
 ROUTE PLAN
 BROADWAY ST
 & JOHN R ST

SHEET NUMBER:
 P1



ROUTE PLAN

SCALE: 1" = 50'-0"

APPLICANT

net SYSTEMS
 3030 Warren Rd, Suite 340
 Detroit, MI 48202
 www.netent.com

ARCHITECT/ENGINEER

VERITA
 Verita Telecommunications Corporation
 4705 Five Mile Road
 Plymouth, MI 48178

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	10/20/06	PERMITTING	JL
2	10/27/06	PERMITTING	JL

ISSUED FOR PERMITTING

PROJECT NAME

NC-MI-DTRUND-TMO
 DEYH006A

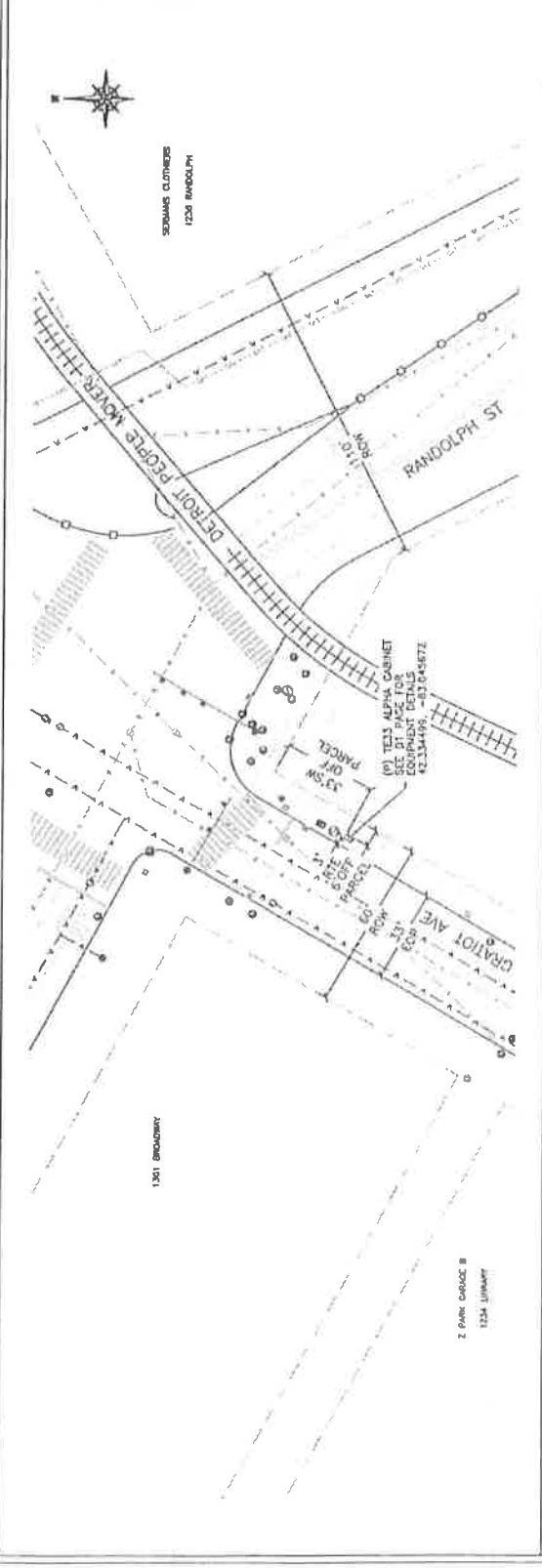
PROJECT LOCATION:
 50 W WILMINGTON ST
 DETROIT, MI 48201

SHEET TITLE

ROUTE PLAN
 GRATIOT AVE &
 RANDOLPH ST

SHEET NUMBER

P1



ROUTE PLAN

SCALE: 1"=20'-0"

APPLICANT
net SYSTEMS
 3030 Warronville Rd, Suite 340
 Columbus, OH 43232
 www.net-systems.com

ARCHITECT/ENGINEER
VERITA
 Verita Telecommunications Corporation
 47509 Pre Way Place
 Plymouth, MI 48170

PERMITS	
#	DATE
1	PERMITTING
2	PERMITTING
3	PERMITTING
4	DESCRIPTION
5	DATE

PROFESSIONAL STAMP

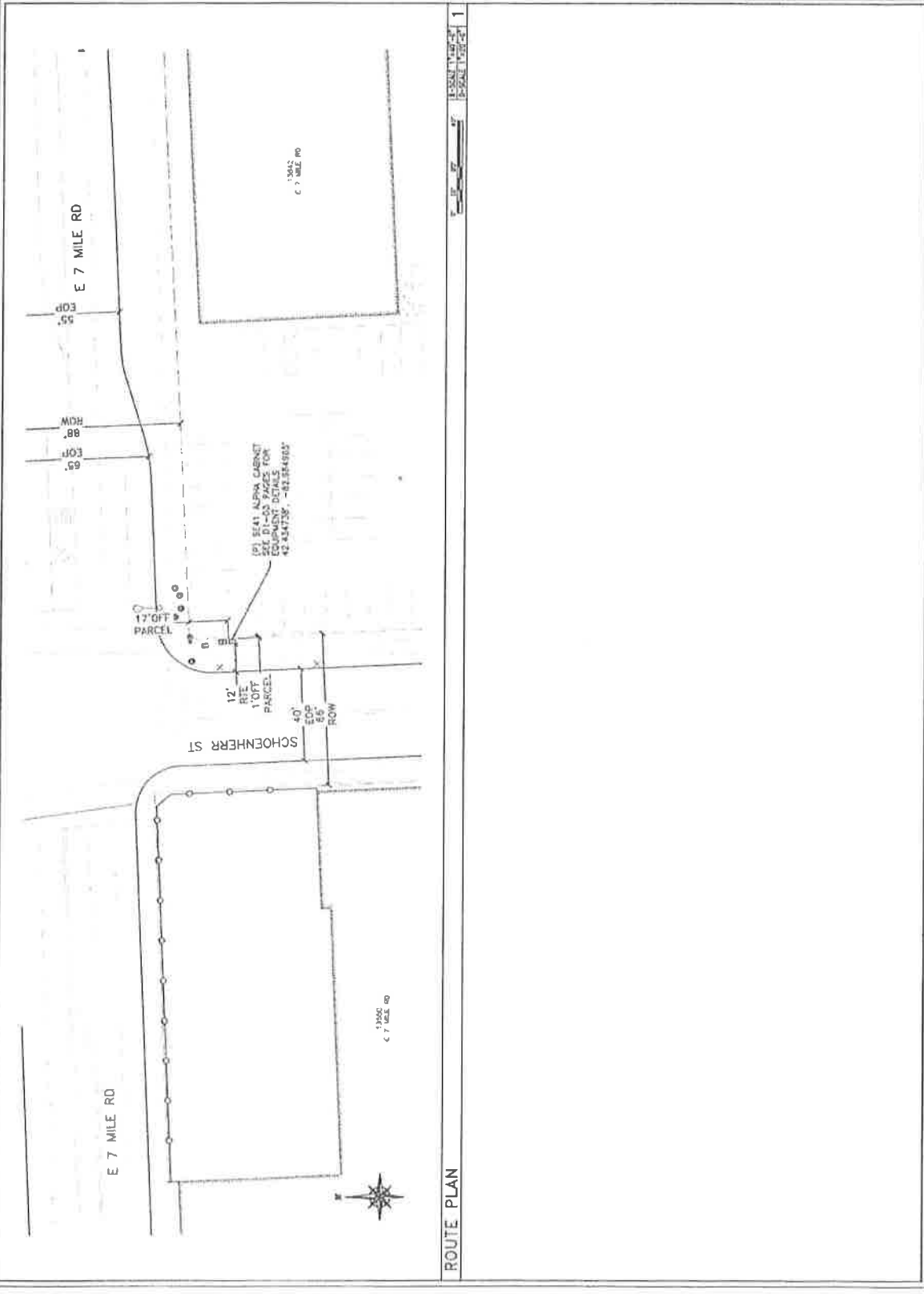
ISSUED FOR PERMITTING

PROJECT NAME
 NC-MI-DTBOUND-TMO
 DE02029B
 SE41 ALPHA CABINET

PROJECT LOCATION
 COUNTY
 ADDRESS

SHEET TITLE
 ROUTE PLAN
 7 MILE RD
 & BARLOW ST

SHEET NUMBER
P1



ROUTE PLAN

1 1/2" = 100' 1/4" = 50' 1/8" = 25' 1/16" = 12.5'

APPLICANT

net SYSTEMS CORPORATION
3030 Warrandale Rd, Suite 340
Livak, IL 60532
www.netfor.net

ARCHITECT/ENGINEER



VERITA
Verita Telecommunications Corporation
47053 Fire Arts Road
Plymouth, MI 48170

REFERENCE

NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTRUND-TMO
DEYH006A

PROJECT LOCATION:

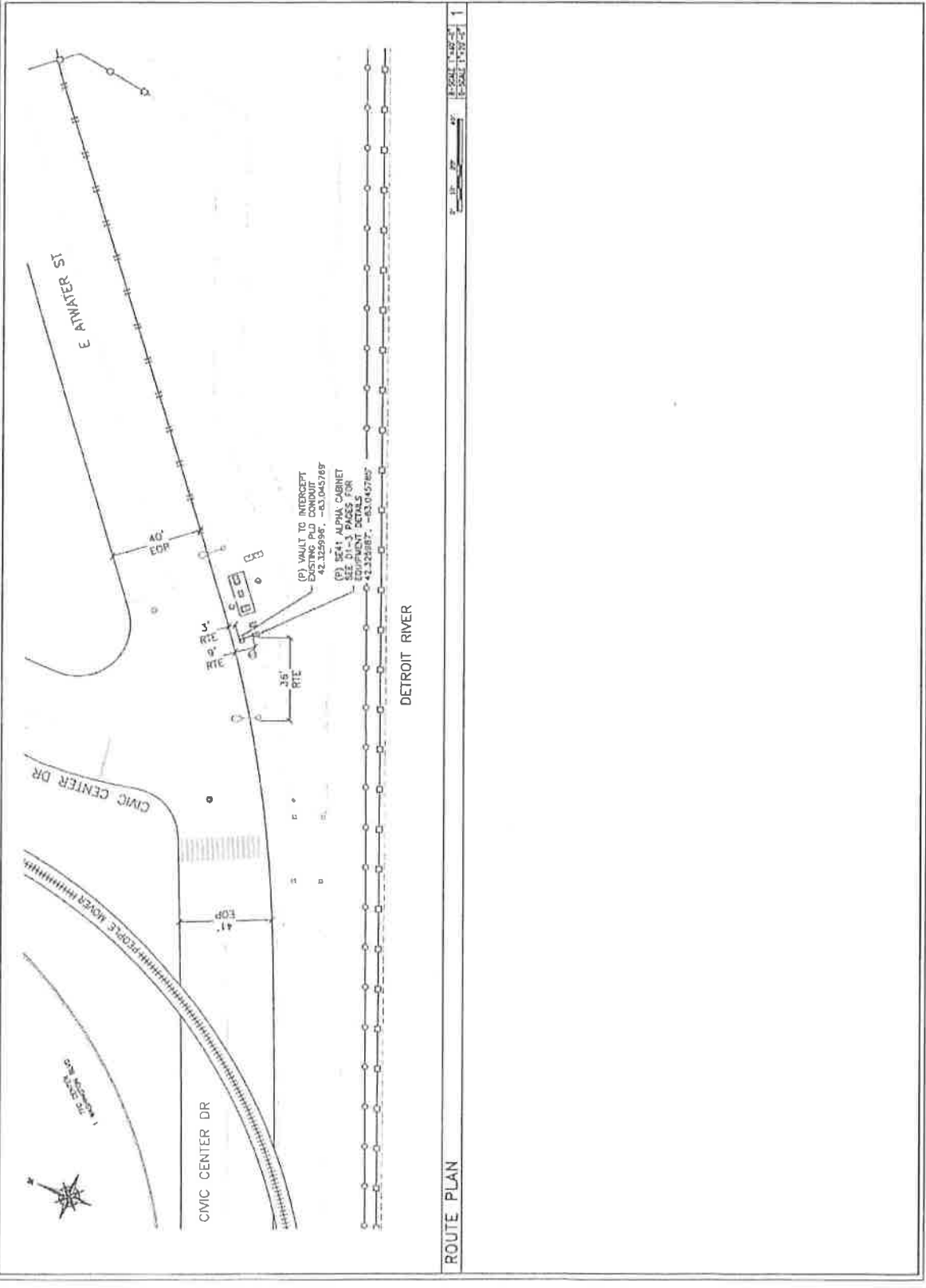
ROUTE PLAN
CIVIC CENTER DR
& E ATWATER ST

SHEET TITLE:

ROUTE PLAN
CIVIC CENTER DR
& E ATWATER ST

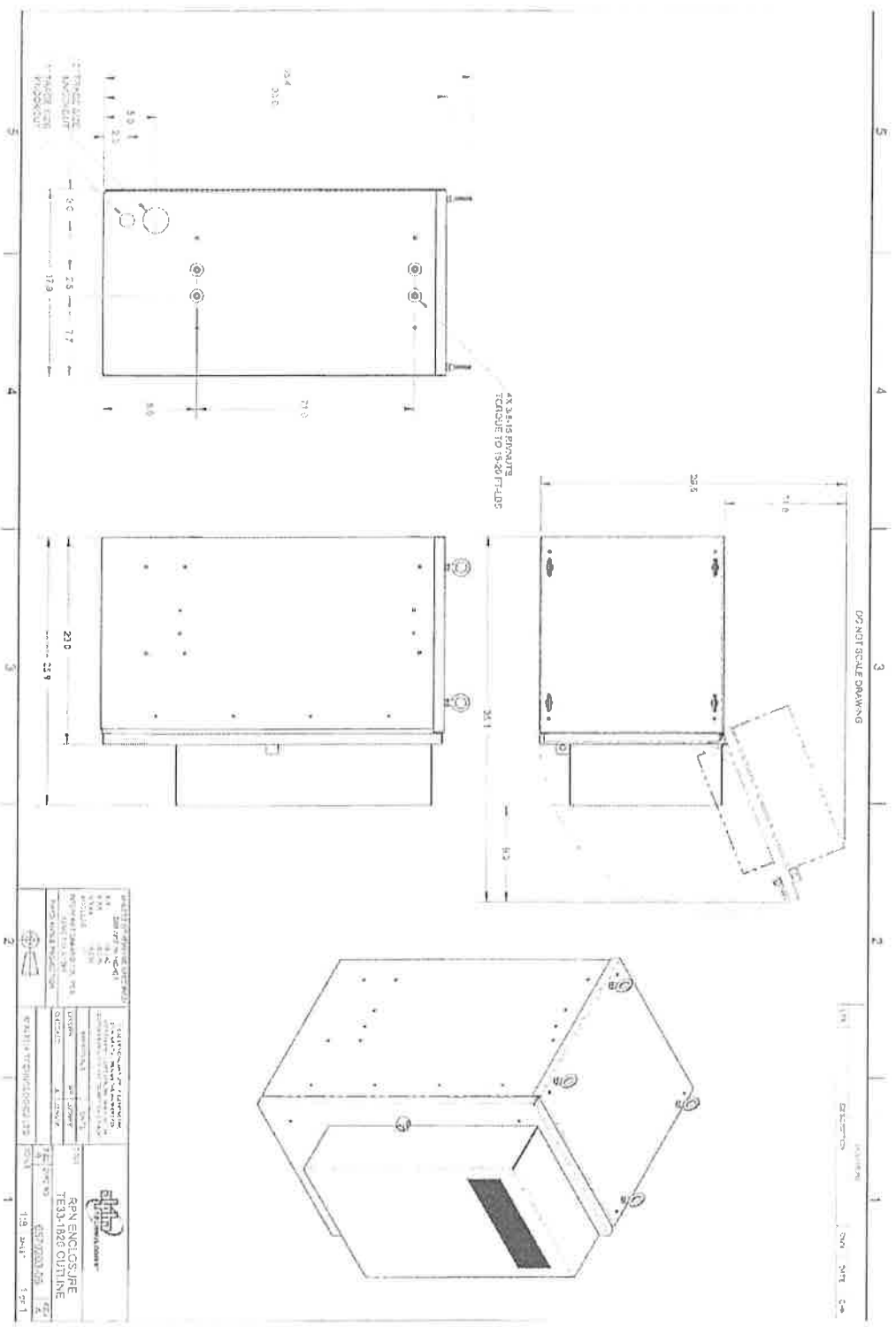
SHEET NUMBER:

P1



ROUTE PLAN

TE-33 ELECTRICAL CABINET - GROUND MOUNTED EQUIPMENT



PROJECT INFORMATION		DATE: 01/15/2019	
PROJECT NO:	119	DATE:	01/15/2019
PROJECT NAME:	ROUTE PLAN	DATE:	01/15/2019
PROJECT LOCATION:	DEYH006A	DATE:	01/15/2019
PROJECT DESCRIPTION:	TECH-1825 OUTLINE	DATE:	01/15/2019
PROJECT OWNER:	VERB	DATE:	01/15/2019
PROJECT MANAGER:	VERB	DATE:	01/15/2019
PROJECT ENGINEER:	VERB	DATE:	01/15/2019
PROJECT ARCHITECT:	VERB	DATE:	01/15/2019
PROJECT CONTRACTOR:	VERB	DATE:	01/15/2019
PROJECT SUBMITTER:	VERB	DATE:	01/15/2019
PROJECT REVIEWER:	VERB	DATE:	01/15/2019
PROJECT APPROVER:	VERB	DATE:	01/15/2019
PROJECT CHECKER:	VERB	DATE:	01/15/2019
PROJECT DESIGNER:	VERB	DATE:	01/15/2019
PROJECT DRAFTER:	VERB	DATE:	01/15/2019
PROJECT PLOTTER:	VERB	DATE:	01/15/2019
PROJECT PRINTER:	VERB	DATE:	01/15/2019
PROJECT FILER:	VERB	DATE:	01/15/2019
PROJECT ARCHIVER:	VERB	DATE:	01/15/2019
PROJECT DESTROYER:	VERB	DATE:	01/15/2019

APPLICANT

nef
NORTH EAST FLORIDA
SYSTEMS

2020 KENNEDY BL, SUITE 340
MERRITT IDLEWOOD
MERRITT IDLEWOOD, FL 32676

ARCHITECT/ENGINEER

VERB
VERB ENGINEERING CORPORATION
1000 VERB BLVD
MERRITT IDLEWOOD, FL 32676

ISSUED FOR PERMITTING

1	ISSUED FOR PERMITTING	J.A.
2	ISSUED FOR PERMITTING	J.A.
1	DATE	J.A.
1	DATE	J.A.

PROFESSIONAL STAMP

PROJECT NAME: NC-MI-DTBUND-TMO
DEYH006A

PROJECT LOCATION: ROUTE PLAN
E MONTAUK ST
& BRUSH ST

SHEET NUMBER: D1

2020-08-12

1308

1308 *Petition of ExteNet Systems Inc.,
request to encroach into E Atwater St,
Gratiot Ave, Broadway St and
Schoenherr St for purpose of installing
telecommunications cabinets*

REFERRED TO THE FOLLOWING DEPARTMENT(S)

PLANNING AND DEVELOPMENT DEPARTMENT DPW -
CITY ENGINEERING DIVISION

City of Detroit
City Engineering Division, Department of Public Works
Maps and Records Bureau

NOTICE OF PROPOSED CHANGE IN PROPERTY

Date: _____

Petition: _____

- | | |
|---|---|
| <input type="checkbox"/> AT&T Telecommunication | |
| <input type="checkbox"/> Comcast Television (CATV) | <input type="checkbox"/> Berm Use |
| <input type="checkbox"/> Detroit Edison (DTE) | |
| <input type="checkbox"/> Fire Department | <input type="checkbox"/> Conversion to Easement |
| <input type="checkbox"/> Great Lakes Water Authority | |
| <input type="checkbox"/> Land Bank Authority | <input type="checkbox"/> Dedication |
| <input type="checkbox"/> Michcon (DTE) | |
| <input type="checkbox"/> Planning & Development Department | <input type="checkbox"/> Encroachment |
| <input type="checkbox"/> Public Lighting Authority | |
| <input type="checkbox"/> Public Lighting Department | <input type="checkbox"/> Outright Vacation |
| <input type="checkbox"/> Police Department | |
| <input type="checkbox"/> Solid Waste Division, DPW | <input type="checkbox"/> Temporary Closing |
| <input type="checkbox"/> Street Design Bureau, DPW | |
| <input type="checkbox"/> Street Maintenance Division, DPW | |
| <input type="checkbox"/> Traffic Engineering Division, DPW | |
| <input type="checkbox"/> Water and Sewerage Department | |
| <input type="checkbox"/> Detroit Thermal | |
| <input type="checkbox"/> International Transmission Company (ITC) | |

A petition drawing is attached. Property shown on the attached print is proposed to be changed as indicated. Kindly report (using the back of this sheet) the nature of your services, if any affected by the proposed change and the estimated costs of removing and rerouting such services (if necessary). If a response is not received after a second notice of proposed change has been issued DPW will make the determination to move forward with the petition.

Please return one copy to City Engineering Division, DPW within two weeks of the submittal date. Retain one copy and print for you file.

Ron Brundidge, Director, Department of Public Works

By: Richard Doherty, CED DPW
City Engineer

**TO: City Engineering Division, DPW
2 Woodward Ave., Suite 642
Detroit, Michigan 48226-3462
Survey Bureau: 313-224-3970**

Petition: _____

The proposed change in property (referred to on the other side of this sheet) would affect our services as follows:

- Not Involved
- Involved; but no objections to the property change.
- Involved; objection to the property change.
- Involved; the nature of our services and the estimated costs of removing and/or rerouting such services are:

Objections, Please leave a brief explanation for any objection or the nature of an estimated cost:

(Utility or City Department)

By

Title

Date

Area code – Telephone number



G,B



PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

APPLICANT

 3030 Warrenville Rd, Suite 340
 Lisle, IL 60532
 www.extenet.com

ARCHITECT/ENGINEER

Verità
 TELECOMMUNICATIONS CORPORATION
 Verità Telecommunications Corporation
 47059 Five Mile Road
 Plymouth, MI 48170

NC-MI-DTBUND-TMO
 DEYH006A
 ALPHA CABINET

2 CIVIC CENTER DR, DETROIT, MI 48226

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/10/2020	PERMITTING	JL
1	5/1/2020	PERMITTING	JL

EXTENET PROJECT TEAM

PERMITTING AGENCIES

SHEET INDEX

VICINITY MAP

APPLICANT:
 EXTENET SYSTEMS, INC.
 3030 WARRENVILLE ROAD
 SUITE 340
 LISLE, IL 60532
 PHONE: (630) 505-3800
 FAX: (630) 577-1332

ENGINEER/ARCHITECT:
 VERITÀ TELECOMMUNICATIONS CORP.
 47059 FIVE MILE ROAD
 PLYMOUTH, MI 48170
 CONTACT: BENJAMIN REEVE
 PHONE: (740) 403-7012

CONSTRUCTION MANAGER:
 EXTENET SYSTEMS INC.
 CONTACT: BILL VORCE
 PHONE: (248) 882-4360

PROJECT MANAGER:
 EXTENET SYSTEMS INC.
 3030 WARRENVILLE ROAD
 SUITE 340
 LISLE, IL 60532
 CONTACT: KEVIN TROPECK
 PHONE: (724) 312-5174

MUNICIPAL AFFAIRS:
 EXTENET SYSTEMS INC.
 CONTACT: KEITH DAVIDOW
 PHONE: (248) 252-2000

UTILITY COMPANY:
 DTE ENERGY
 CONTACT: REBECCA PICKLER
 PHONE: (313) 235-8426

CITY OF DETROIT- ENGINEERING:
 2 WOODWARD AVE, SUITE 611
 DETROIT, MI 48226
 CONTACT: STELLA KULANGARA
 PHONE: (313) 224-3935
 STEKUL@DETROITMI.GOV

C1	COVER SHEET & PROJECT INFORMATION
C2	PROJECT KEY MAP
L1	GENERAL NOTES ABBREVIATIONS & SYMBOLS
P1	CIVIC CENTER DR & E ATWATER ST
D1	GROUND MOUNTED EQUIPMENT DETAILS
D2	GROUND MOUNTED EQUIPMENT DETAILS
D3	GROUND MOUNTED EQUIPMENT DETAILS



PROJECT DESCRIPTION

THESE DRAWINGS DEPICT A PORTION OF A SMALL CELL SYSTEM TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE MICHIGAN METRO ACT.

THE MAIN COMPONENTS OF THIS INSTALLATION ARE:
 THE INSTALLATION OF ONE (1) ALPHA SE-41 ELECTRICAL CABINET, ASSOCIATED ELECTRICAL COMPONENTS, AND MOUNTING EQUIPMENT AS REQUIRED.

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
 DEYH006A

PROJECT LOCATION:

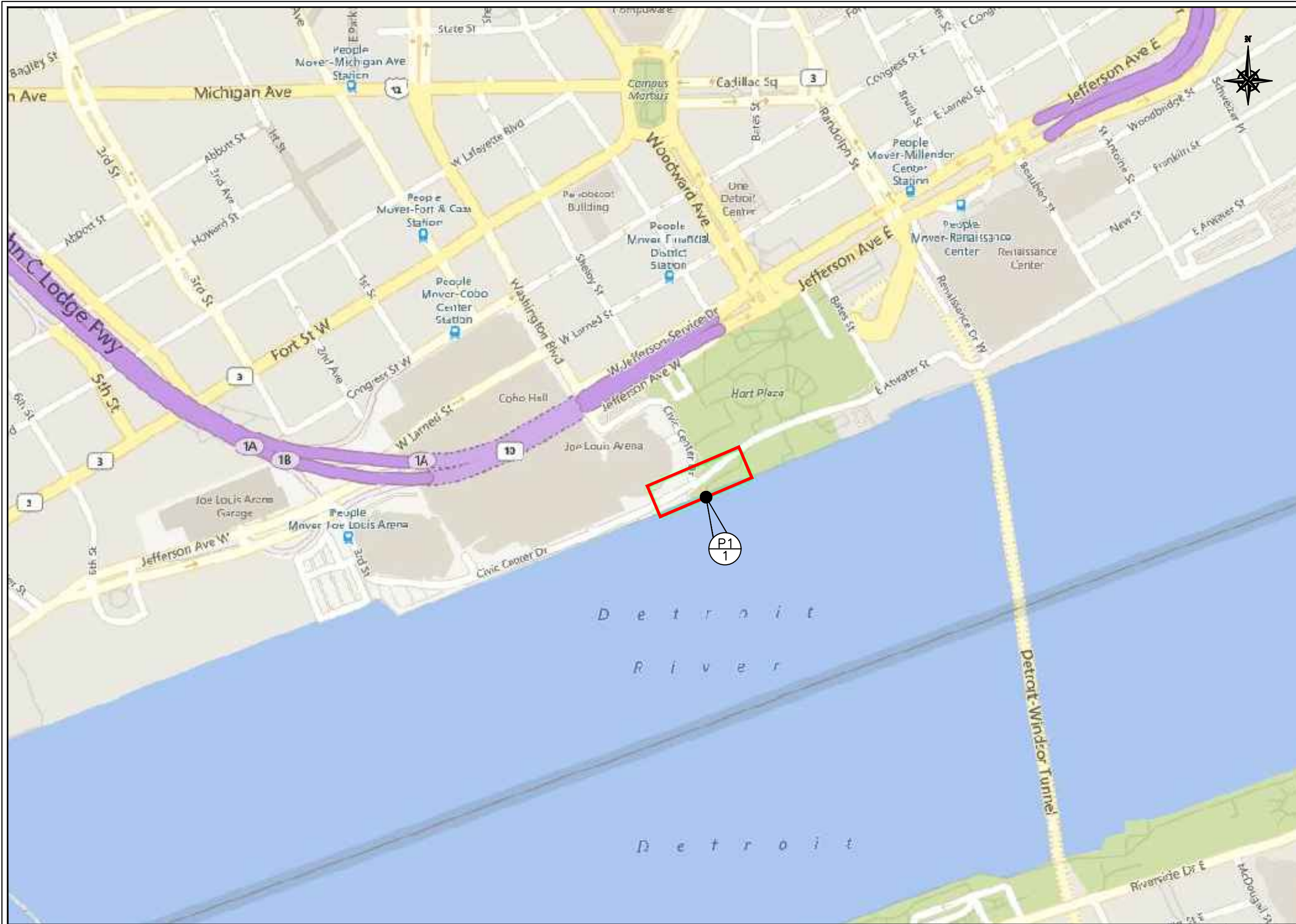
20 W ELIZABETH ST
 DETROIT, MI 48201

SHEET TITLE:

COVER SHEET &
 PROJECT INFORMATION

SHEET NUMBER:

C1



PROJECT KEY MAP

SCALE
NTS 1

APPLICANT

extenet SYSTEMS
YOUR NETWORK. EVERYWHERE.
3030 Warrenville Rd, Suite 340
Lisle, IL 60532
www.extenet.com

ARCHITECT/ENGINEER

VERITÀ
TELECOMMUNICATIONS CORPORATION
Verità Telecommunications Corporation
47059 Five Mile Road
Plymouth, MI 48170

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/10/2020	PERMITTING	JL
1	5/1/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

**NC-MI-DTBUND-TMO
DEYH006A**

PROJECT LOCATION:

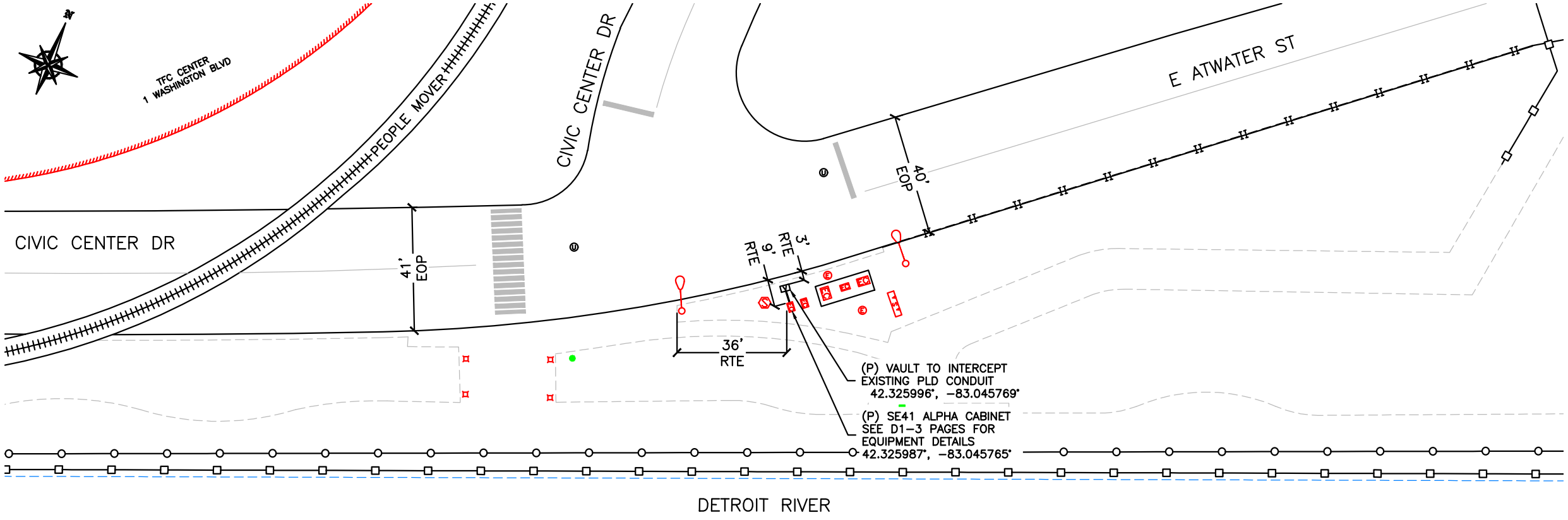
**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

PROJECT KEY MAP

SHEET NUMBER:

C2



ROUTE PLAN

0' 10' 20' 40' B-SCALE 1"=40'-0" D-SCALE 1"=20'-0" 1

APPLICANT

extenet YOUR NETWORK. EVERYWHERE.
SYSTEMS
3030 Warrenville Rd, Suite 340
Lisle, IL 60532
www.extenet.com

ARCHITECT/ENGINEER

VERITÀ
TELECOMMUNICATIONS CORPORATION
Verità Telecommunications Corporation
47059 Five Mile Road
Plymouth, MI 48170

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/10/2020	PERMITTING	JL
1	5/1/2020	PERMITTING	JL
#	DATE	DESCRIPTION	INT.

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO DEYH006A

PROJECT LOCATION:

**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

**ROUTE PLAN
CIVIC CENTER DR
& E ATWATER ST**

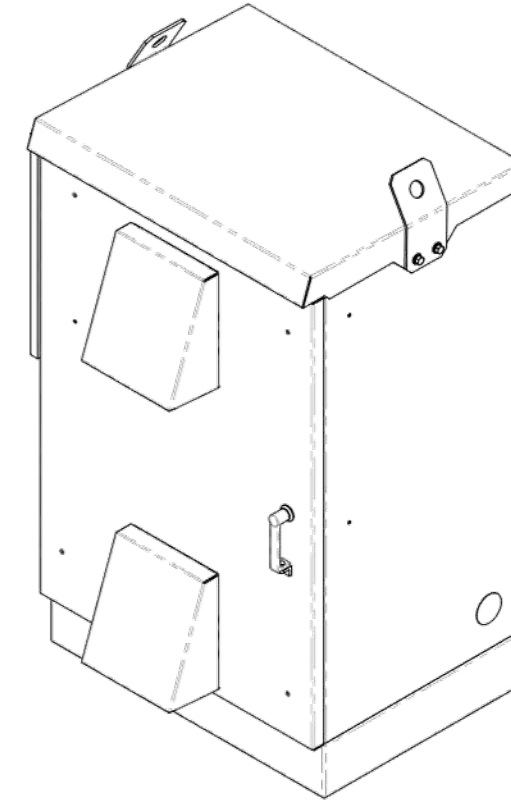
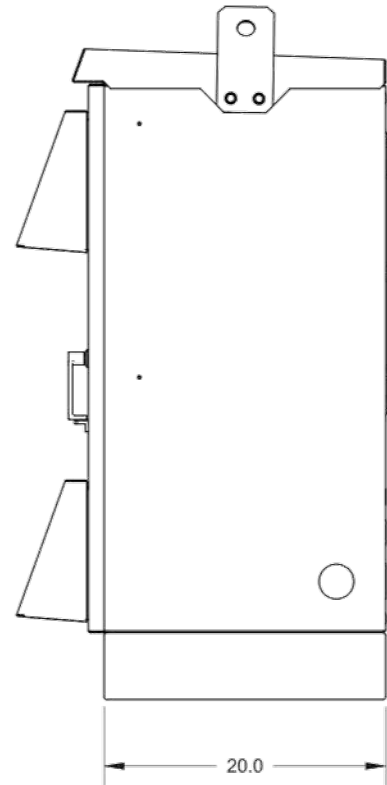
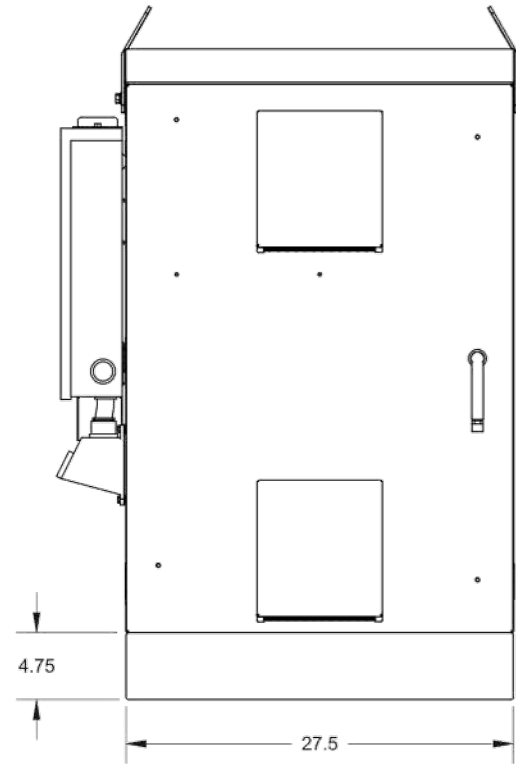
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P1

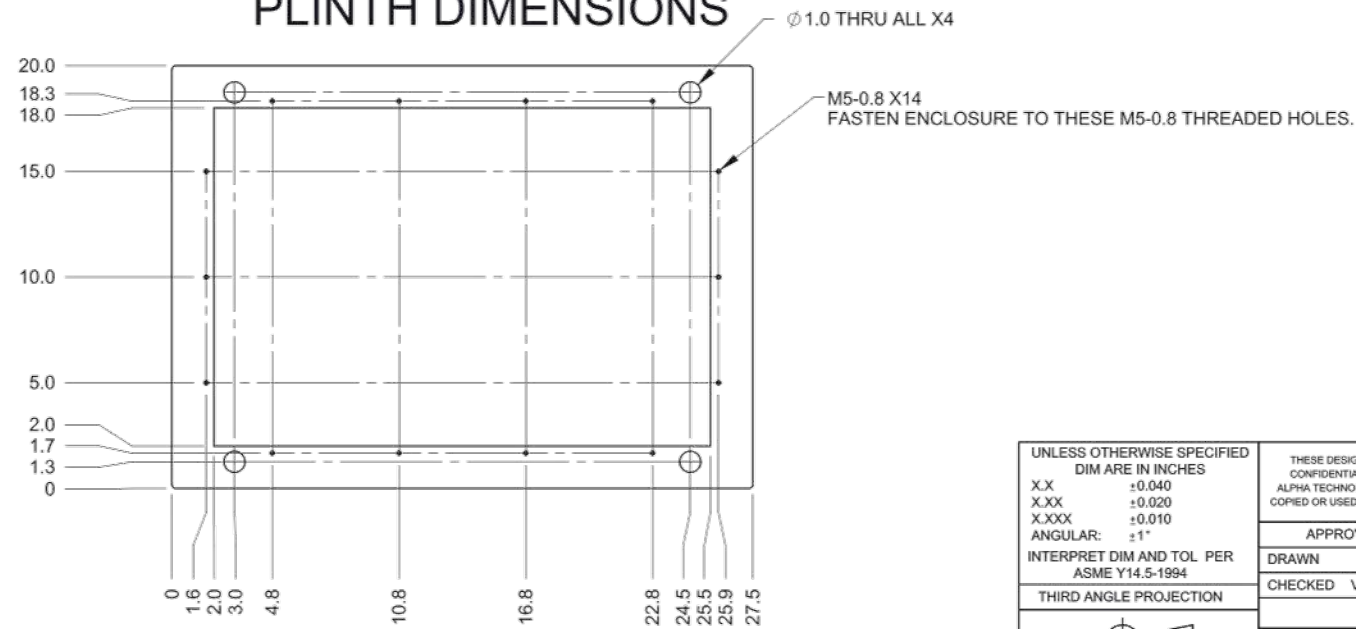
DO NOT SCALE DRAWING

PLINTH OPTION

REVISIONS					
LTR	DESCRIPTION	BP	DWN	DATE	CHK



PLINTH DIMENSIONS



NOTE:
 1. REMOVAL OF THE BATTERY TRAYS (IF INSTALLED) MAY BE REQUIRED TO MOUNT THE ENCLOSURE TO THE PLINTH.
 2. FASTEN ENCLOSURE TO PLINTH WITH PROVIDED M5 SCREWS.

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES		THESE DESIGNS AND SPECIFICATIONS ARE CONFIDENTIAL. REMAIN THE PROPERTY OF ALPHA TECHNOLOGIES LTD., AND SHALL NOT BE COPIED OR USED WITHOUT ITS WRITTEN CONSENT			
X.X	±0.040	APPROVALS			
X.XX	±0.020	DRAWN S. BIENKO		FEB-01-13	TITLE: OUTLINE DRAWING, TE51
X.XXX	±0.010	CHECKED V. BEAUVAIS		FEB-01-13	SIZE DWG NO. 0290002-06 REV B
ANGULAR:	±1°	THIRD ANGLE PROJECTION		SCALE: 1:12	SHEET 5 OF 5
		© ALPHA TECHNOLOGIES LTD			

APPLICANT



3030 Warrenville Rd, Suite 340
 Lisle, IL 60532
 www.extenet.com

ARCHITECT/ENGINEER



VERITÀ
 TELECOMMUNICATIONS CORPORATION
 47059 Five Mile Road
 Plymouth, MI 48170

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/10/2020	PERMITTING	JL
1	5/1/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
 DEYH006A

PROJECT LOCATION:

20 W ELIZABETH ST
 DETROIT, MI 48201

SHEET TITLE:

GROUND MOUNTED
 EQUIPMENT DETAILS

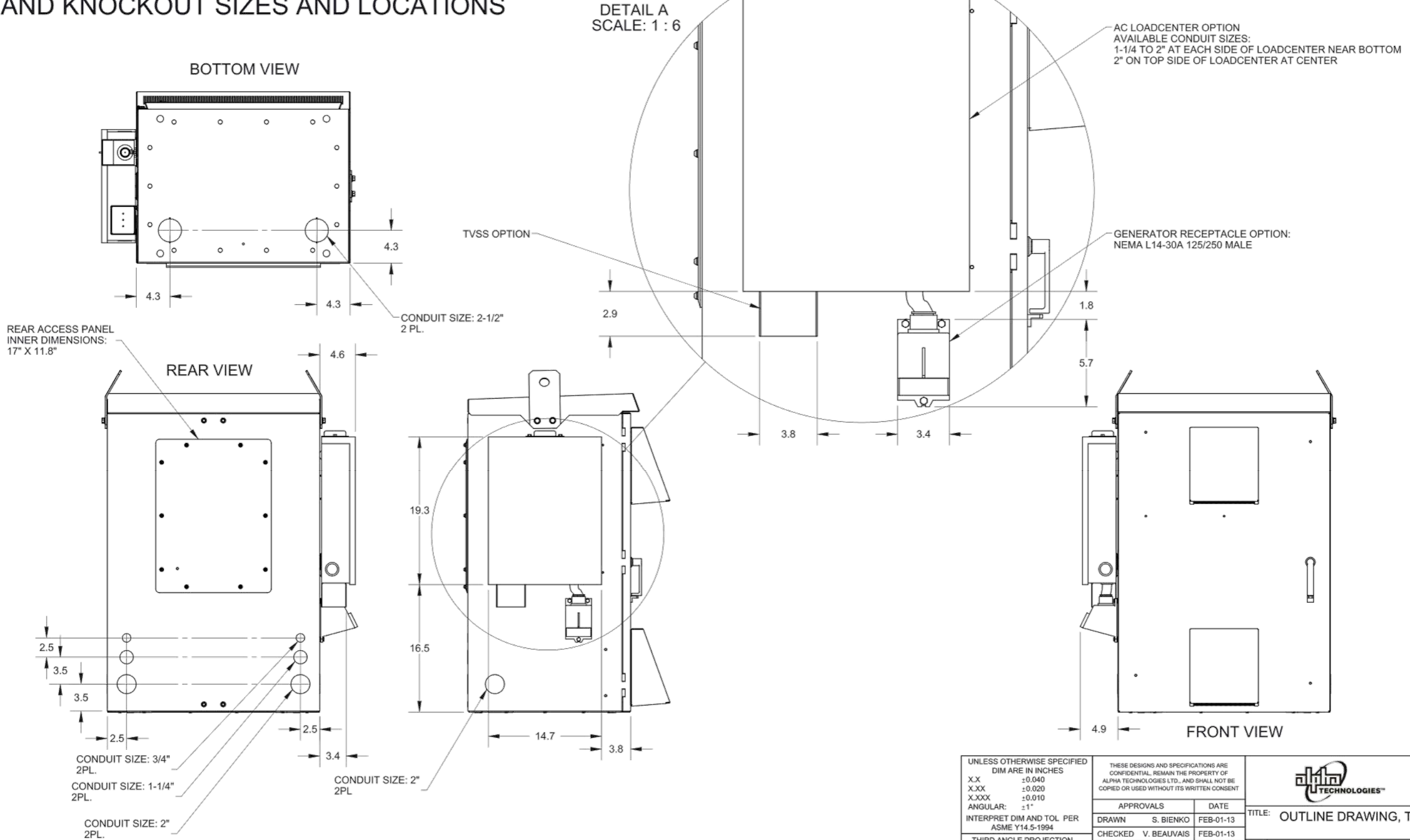
SHEET NUMBER:

D1

AC LOAD CENTER, TVSS AND GENERATOR RECEPTACLE OPTIONS AND KNOCKOUT SIZES AND LOCATIONS

DO NOT SCALE DRAWING

REVISIONS				
LTR	DESCRIPTION	BP	DWN	CHK



UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES X.X ±0.040 X.XX ±0.020 X.XXX ±0.010 ANGULAR: ±1° INTERPRET DIM AND TOL PER ASME Y14.5-1994 THIRD ANGLE PROJECTION	THESE DESIGNS AND SPECIFICATIONS ARE CONFIDENTIAL. REMAIN THE PROPERTY OF ALPHA TECHNOLOGIES LTD., AND SHALL NOT BE COPIED OR USED WITHOUT ITS WRITTEN CONSENT	<table border="1"> <thead> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN S. BIENKO</td> <td>FEB-01-13</td> </tr> <tr> <td>CHECKED V. BEAUVAIS</td> <td>FEB-01-13</td> </tr> </tbody> </table>	APPROVALS	DATE	DRAWN S. BIENKO	FEB-01-13	CHECKED V. BEAUVAIS	FEB-01-13	<table border="1"> <tr> <td>TITLE: OUTLINE DRAWING, TE51</td> </tr> <tr> <td>SIZE DWG NO. 0290002-06</td> </tr> <tr> <td>SCALE: 1:12 SHEET 2 OF 5</td> </tr> </table>	TITLE: OUTLINE DRAWING, TE51	SIZE DWG NO. 0290002-06	SCALE: 1:12 SHEET 2 OF 5
APPROVALS	DATE											
DRAWN S. BIENKO	FEB-01-13											
CHECKED V. BEAUVAIS	FEB-01-13											
TITLE: OUTLINE DRAWING, TE51												
SIZE DWG NO. 0290002-06												
SCALE: 1:12 SHEET 2 OF 5												

© ALPHA TECHNOLOGIES LTD

APPLICANT

extenet YOUR NETWORK. EVERYWHERE.
SYSTEMS

3030 Warrenville Rd, Suite 340
Lisle, IL 60532
www.extenet.com

ARCHITECT/ENGINEER

Verita
TELECOMMUNICATIONS CORPORATION
Verita Telecommunications Corporation
47059 Five Mile Road
Plymouth, MI 48170

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/10/2020	PERMITTING	JL
1	5/1/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:
NC-MI-DTBUND-TMO DEYH006A

PROJECT LOCATION:
20 W ELIZABETH ST DETROIT, MI 48201

SHEET TITLE:

GROUND MOUNTED EQUIPMENT DETAILS

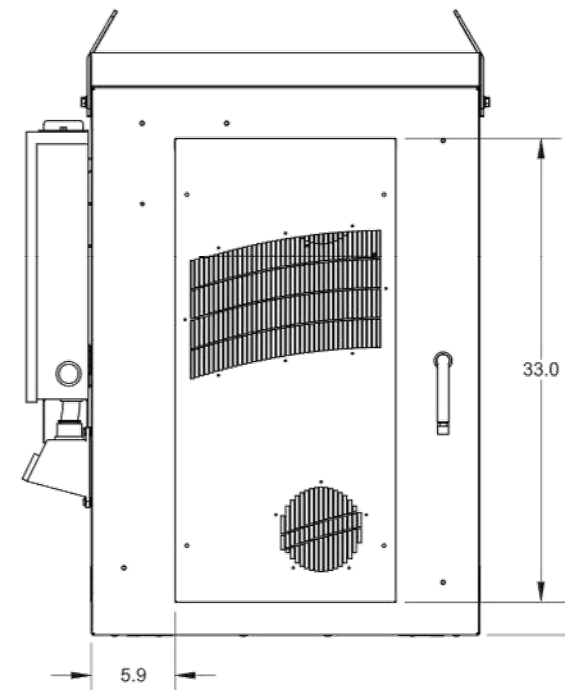
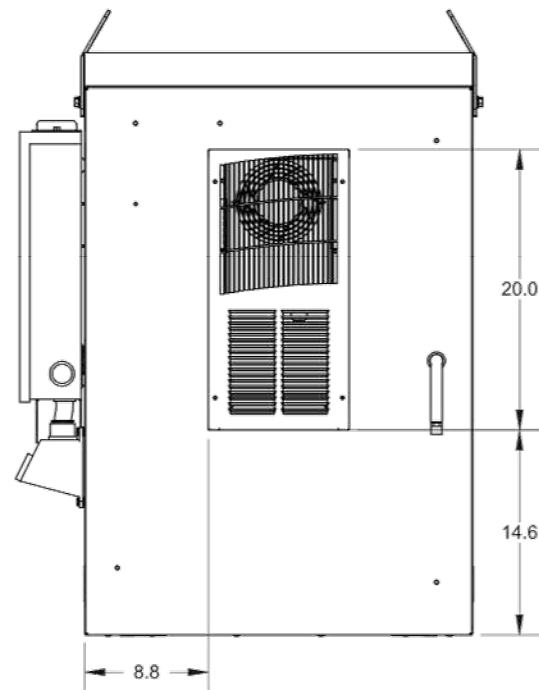
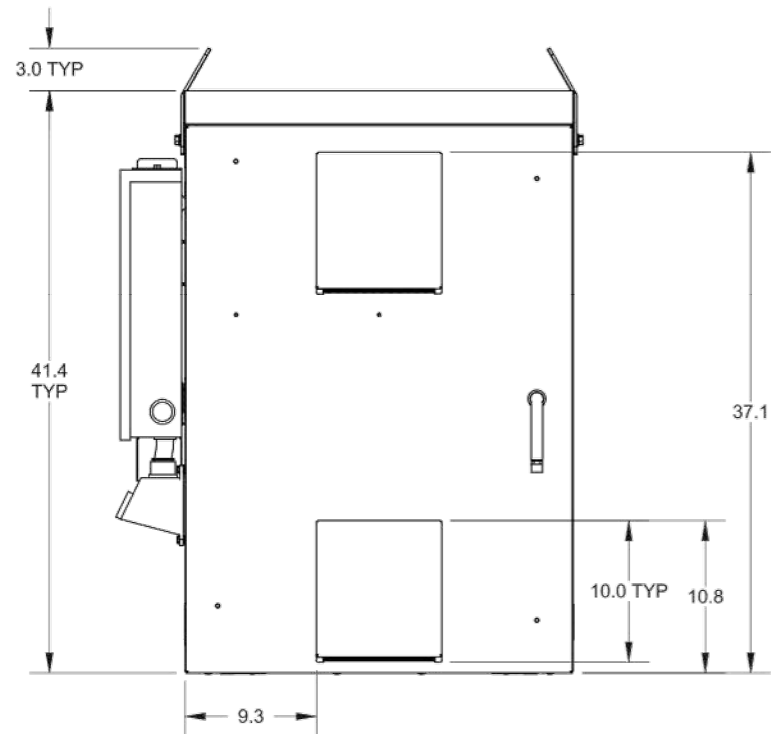
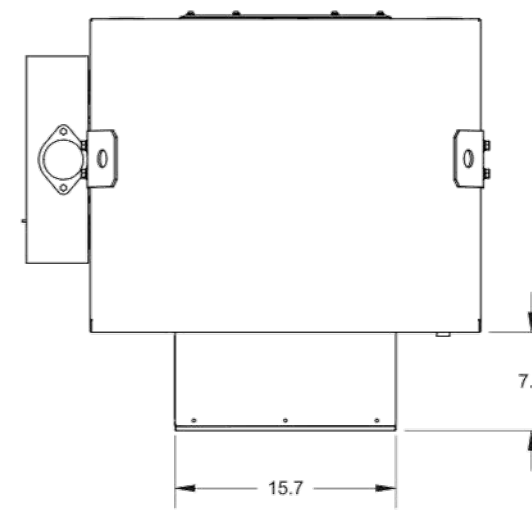
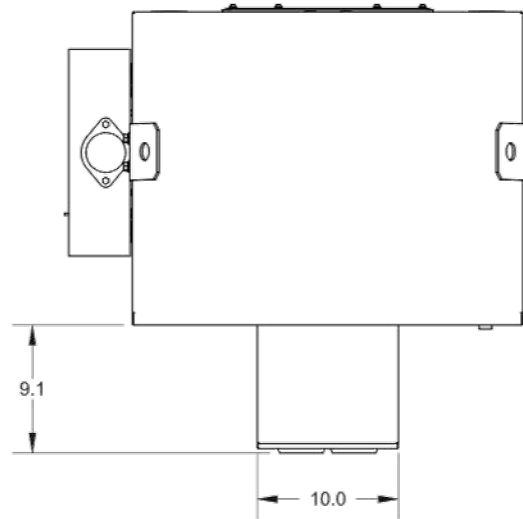
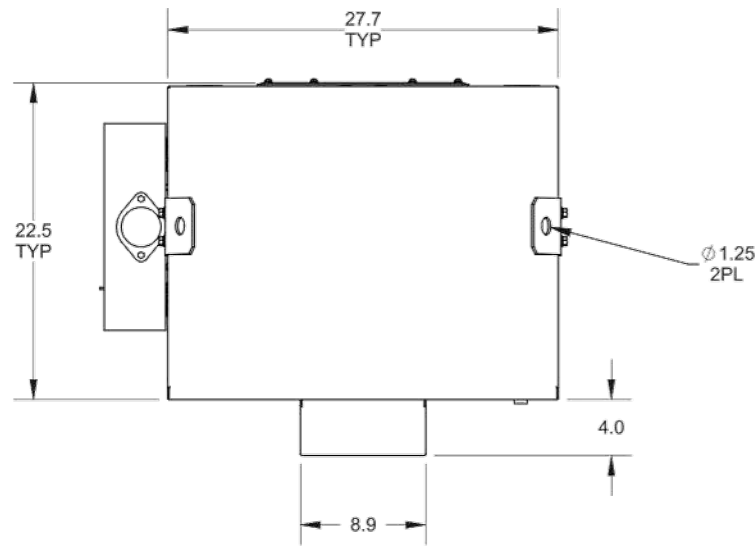
SHEET NUMBER:

D2

DO NOT SCALE DRAWING

COOLING OPTIONS

REVISIONS					
LTR	DESCRIPTION	BP	DWN	DATE	CHK
B	ADDED SHEET 5 (PLINTH)		SRB	FEB 2013	VB



FAN COOLING OPTION

AIR CONDITIONER COOLING OPTION

HEAT EXCHANGER COOLING OPTION

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	DRAWN S. BIENKO	FEB-01-13		SIZE DWG NO. 0290002-06
	CHECKED V. BEAUVAIS	FEB-01-13		REV B
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1	5/1/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
DEYH006A

PROJECT LOCATION:

20 W ELIZABETH ST
DETROIT, MI 48201

SHEET TITLE:

GROUND MOUNTED
EQUIPMENT DETAILS

SHEET NUMBER:

D3

G,B



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NC-MI-DTBUND-TMO
DEYH006A
ALPHA CABINET (A)
DETROIT, MI



REVISIONS:

#	DATE	DESCRIPTION	INT.
3	6/10/2020	PERMITTING	JL
2	6/4/2020	PERMITTING	JL
1	3/12/2020	PERMITTING	JL

EXTENET PROJECT TEAM	PERMITTING AGENCIES	SHEET INDEX	VICINITY MAP
<p>APPLICANT: EXTENET SYSTEMS, INC. 3030 WARRENVILLE ROAD SUITE 340 LISLE, IL 60532 PHONE: (630) 505-3800 FAX: (630) 577-1332</p> <p>ENGINEER/ARCHITECT: VERITÀ TELECOMMUNICATIONS CORP. 47059 FIVE MILE ROAD PLYMOUTH, MI 48170 CONTACT: BENJAMIN REEVE PHONE: (740) 403-7012</p> <p>CONSTRUCTION MANAGER: EXTENET SYSTEMS INC. CONTACT: BILL VORCE PHONE: (248) 882-4360</p> <p>PROJECT MANAGER: EXTENET SYSTEMS INC. 3030 WARRENVILLE ROAD SUITE 340 LISLE, IL 60532 CONTACT: KEVIN TROPECK PHONE: (724) 312-5174</p> <p>MUNICIPAL AFFAIRS: EXTENET SYSTEMS INC. CONTACT: KEITH DAVIDOW PHONE: (248) 252-2000</p>	<p>UTILITY COMPANY: DTE ENERGY CONTACT: REBECCA PICKLER PHONE: (313) 235-8426</p> <p>CITY OF DETROIT- ENGINEERING: 2 WOODWARD AVE, SUITE 611 DETROIT, MI 48226 CONTACT: STELLA KULANGARA PHONE: (313) 224-3935 STEKUL@DETROITMI.GOV</p> <p>MDOT: DETROIT TSC CONTACT: OCTAVIA SHAMILY PHONE: (313) 967-5436 SHAMILYO@MICHIGAN.GOV</p>	<p>C1 COVER SHEET & PROJECT INFORMATION</p> <p>C2 PROJECT KEY MAP</p> <p>L1 GENERAL NOTES ABBREVIATIONS & SYMBOLS</p> <p>P1 BROADWAY ST & JOHN R ST</p> <p>D1 GROUND MOUNTED EQUIPMENT DETAILS</p>	
PROJECT DESCRIPTION			
<p>THESE DRAWINGS DEPICT A PORTION OF A SMALL CELL SYSTEM TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE MICHIGAN METRO ACT.</p> <p>THE MAIN COMPONENTS OF THIS INSTALLATION ARE: THE INSTALLATION OF ONE (1) ALPHA TE-33 ELECTRICAL CABINET, ASSOCIATED ELECTRICAL COMPONENTS, AND MOUNTING EQUIPMENT AS REQUIRED.</p>			

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:
NC-MI-DTBUND-TMO
DEYH006A

PROJECT LOCATION:
20 W ELIZABETH ST
DETROIT, MI 48201

SHEET TITLE:

COVER SHEET & PROJECT INFORMATION

SHEET NUMBER:
C1



PROJECT KEY MAP

SCALE
NTS 1

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2	6/4/2020	PERMITTING	JL
1	3/12/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

**NC-MI-DTBUND-TMO
DEYH006A**

PROJECT LOCATION:

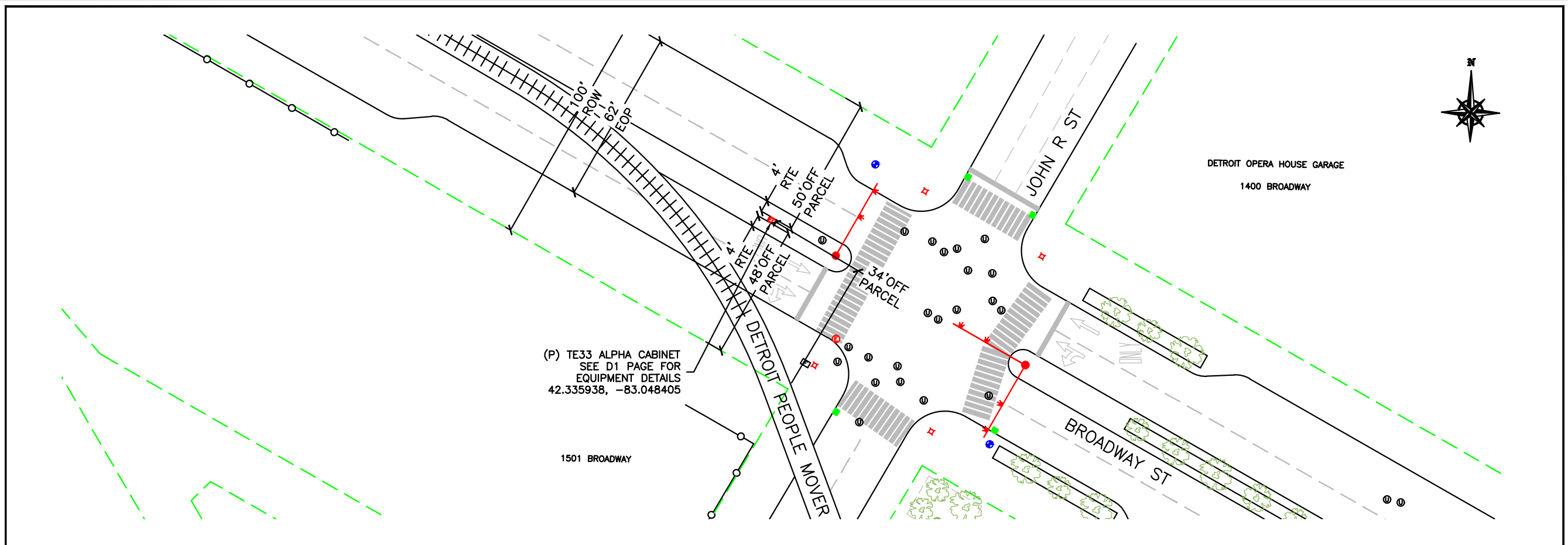
**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

PROJECT KEY MAP

SHEET NUMBER:


C2



ROUTE PLAN


0' 10' 20' 40' B-SCALE 1"=40'-0" D-SCALE 1"=20'-0" 1

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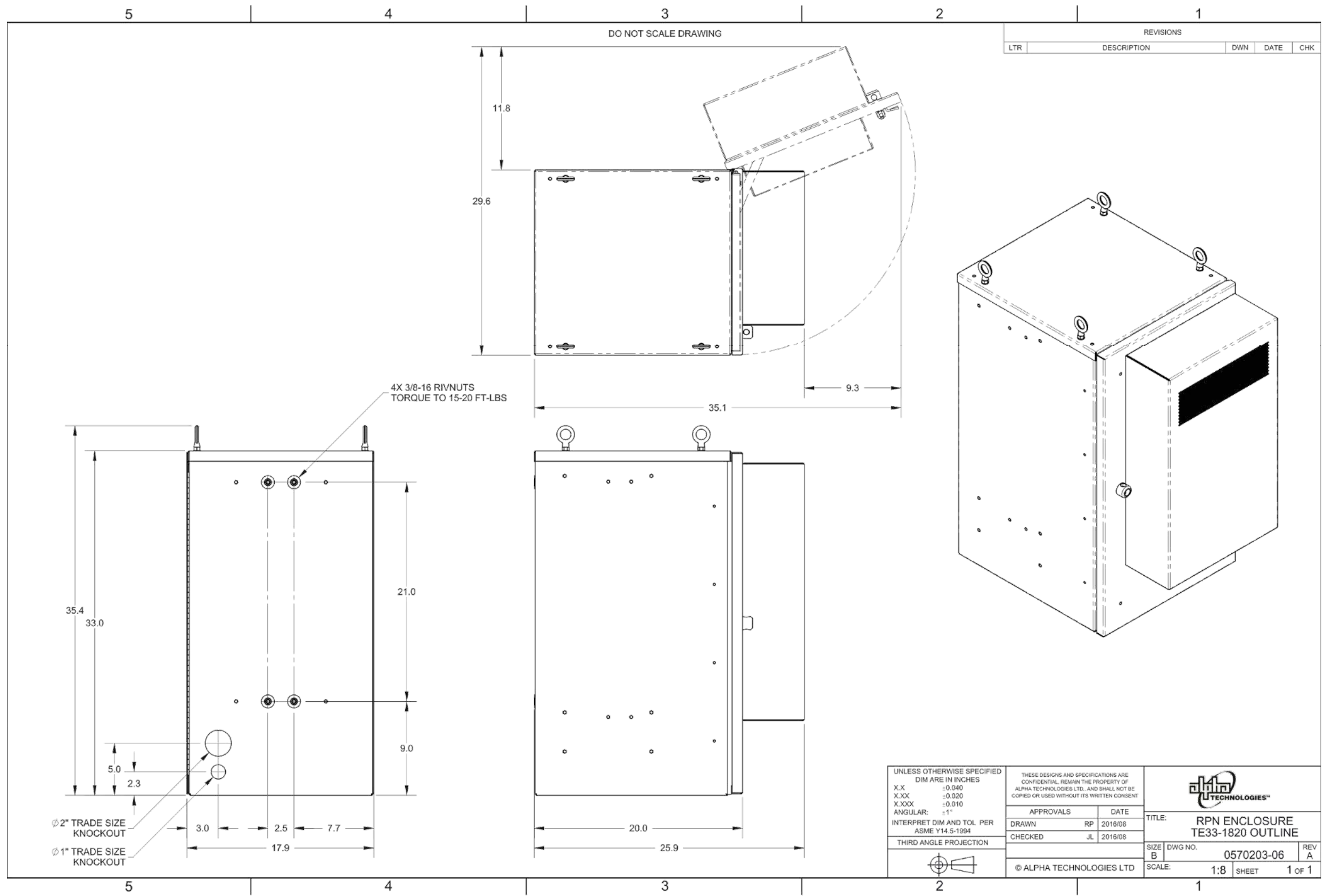
**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

**ROUTE PLAN
BROADWAY ST
& JOHN R ST**

SHEET NUMBER:

P1



TE-33 ELECTRICAL CABINET – GROUND MOUNTED EQUIPMENT

NOT TO SCALE 1

APPLICANT



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NC-MI-DTBUND-TMO
DEYH006A

PROJECT LOCATION:

20 W ELIZABETH ST
DETROIT, MI 48201

SHEET TITLE:

ROUTE PLAN
E MONTCALM ST
& BRUSH ST

SHEET NUMBER:

D1

MULTIPLE

Y



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2	6/4/2020	PERMITTING	JL
1	3/13/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
DE02029B
SE41 ALPHA CABINET

PROJECT LOCATION:

DETROIT MICHIGAN

SHEET TITLE:

COVER SHEET & PROJECT INFORMATION

SHEET NUMBER:

C1

NC-MI-DTBUND-TMO
DE02029B
ALPHA CABINET
DETROIT, MI 48224



EXTENET PROJECT TEAM

APPLICANT:
EXTENET SYSTEMS, INC.
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CONSTRUCTION MANAGER:
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CONTACT: BILL VORCE
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PROJECT MANAGER:
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CONTACT: KEVIN TROPECK
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MUNICIPAL AFFAIRS:
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CONTACT: KEITH DAVIDOW
PHONE: (248) 252-2000

PERMITTING AGENCIES

UTILITY COMPANY:
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CONTACT: REBECCA PICKLER
PHONE: (313) 235-8426

CITY OF DETROIT- ENGINEERING:
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DETROIT, MI 48226
CONTACT: STELLA KULANGARA
PHONE: (313) 224-3935
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SHEET INDEX

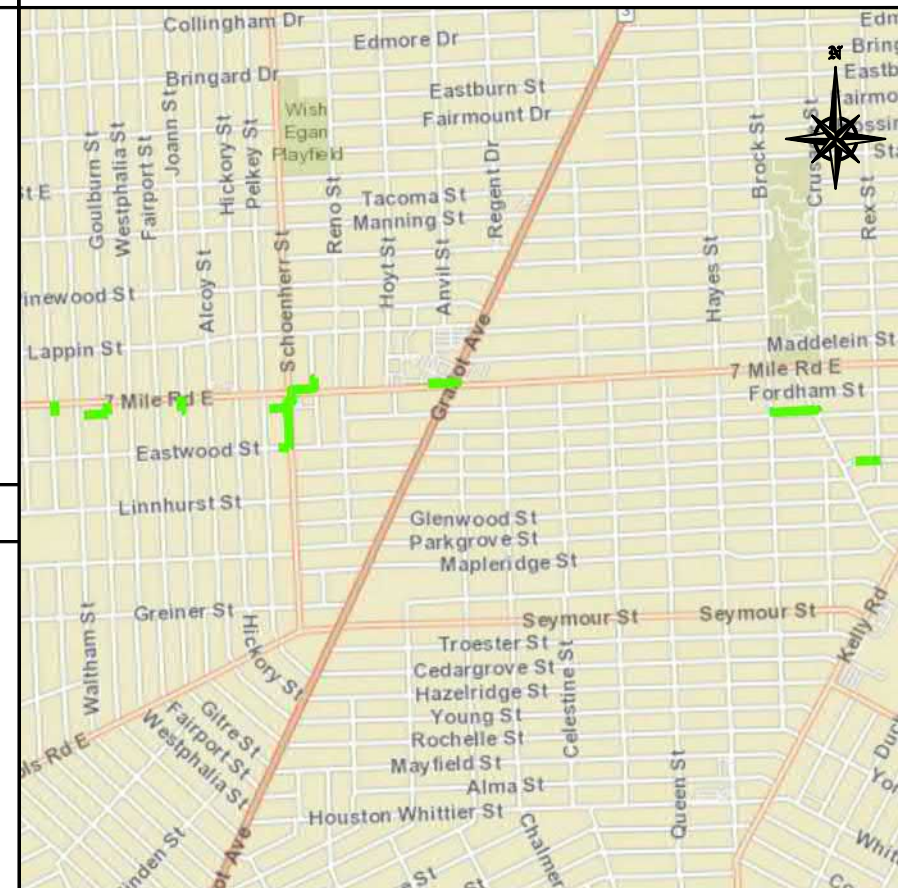
- C1 COVER SHEET & PROJECT INFORMATION
- C2 PROJECT KEY MAP
- L1 GENERAL NOTES ABBREVIATIONS & SYMBOLS
- P1 E 7 MILE RD & BARLOW ST
- D1 GROUND MOUNTED EQUIPMENT DETAILS
- D2 GROUND MOUNTED EQUIPMENT DETAILS
- D3 GROUND MOUNTED EQUIPMENT DETAILS

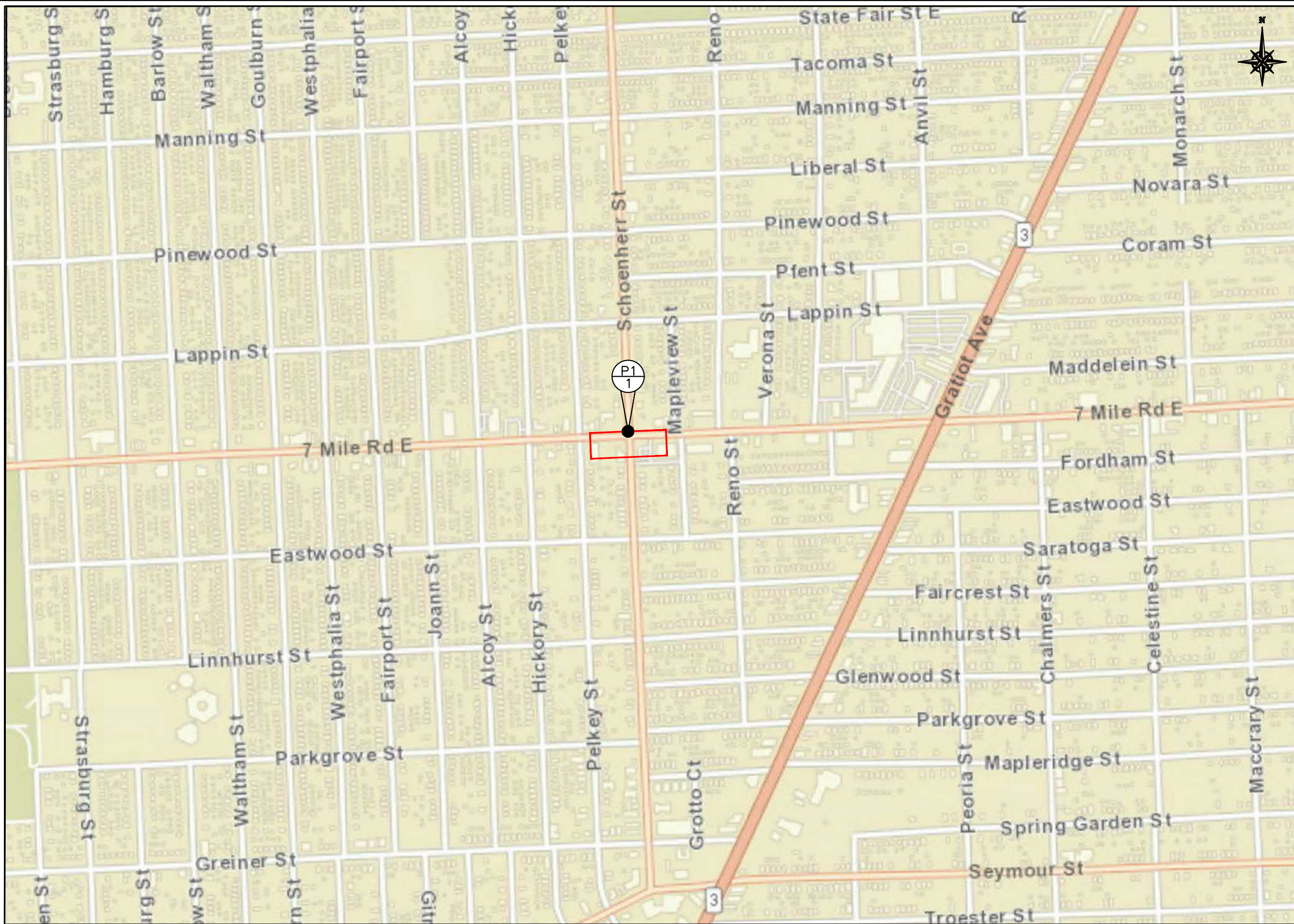
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THE INSTALLATION OF ONE (1) ALPHA SE-41 ELECTRICAL CABINET, ASSOCIATED ELECTRICAL COMPONENTS, AND MOUNTING EQUIPMENT AS REQUIRED.

VICINITY MAP





PROJECT KEY MAP

SCALE
NTS 1

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1	3/13/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
DE02029B
SE41 ALPHA CABINET

PROJECT LOCATION:

DETROIT MICHIGAN

SHEET TITLE:

PROJECT KEY MAP

SHEET NUMBER:

C2

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT.



SPECIAL NOTES

- 1. INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNIFY AND HOLD EXTENET, REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
1. ALL REQUIREMENTS OF THE CITY, COUNTY AND STATE "STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).

ABBREVIATIONS

Table of abbreviations and their full names, including AL, AGL, AMSL, APVD, etc., and their corresponding meanings like ALUMINUM ALLOY, ABOVE GROUND LEVEL, etc.

CODE COMPLIANCE

- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
1. MICHIGAN BUILDING CODE IBC.
2. MICHIGAN ADMINISTRATIVE REGULATIONS.
3. ANSI/ EIA-222-F LIFE SAFETY CODE NFPA.

GENERAL NOTES

ROW GROUND CONSTRUCTION NOTES:

- 1. 120V POWER REQUIRED FOR 2-WIRE SERVICE.
2. GC TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL STANDARDS AND REGULATIONS.

STANDARD GROUNDING NOTES:

- 1. GROUND TESTED AT 25 OHMS OR LESS.
2. 5/8"x8" ROD, CAD WELD OR UL LISTED DIRECT BURY CLAMP BELOW GRADE.
3. #8 GROUND AND BOND WIRE.
4. MOLDING, STAPLED EVERY 1" AND AT EACH END

STANDARD CONDUIT NOTES:

- 1. FOR UNDERGROUND USE SCHEDULE 40.
2. FOR RISERS USE SCHEDULE 80.
3. PLACE 2" SDR-11 RED CONDUIT FOR UG POWER APPLICATIONS. RISERS TO BE ATTACHED TO POLE WITH STANDARD U-CLAMPS AND LAG SCREWS.
4. RISER U-CLAMPS TO BE INSTALLED EVERY 5'.

STANDARD TRENCHING NOTES:

- 1. MAINTAIN 40" MINIMUM COVER FOR ELECTRICAL CONDUIT.
2. MAINTAIN 40" MINIMUM COVER FOR COMMUNICATIONS CONDUIT.
3. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
4. IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.

ROW UTILITY POLE CONSTRUCTION NOTES:

- 1. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2".
2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS.
3. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
4. CABLE NOT TO IMPDEE 15" CLEAR SPACE OFF POLE FACE (12:00).

Legend & Symbols table containing various symbols for utility poles, conduits, manholes, valves, etc., with corresponding descriptions.

ROW CONSTRUCTION GENERAL NOTES

SCALE NTS 2

LEGEND & SYMBOLS

SCALE NTS 1

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REVISIONS:

Table with columns for revision number, date, description, and initials. Includes revisions 2 and 1.

PROFESSIONAL STAMP

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PROJECT NAME:

NC-MI-DTBUND-TMO
DE02029B
SE41 ALPHA CABINET

PROJECT LOCATION:

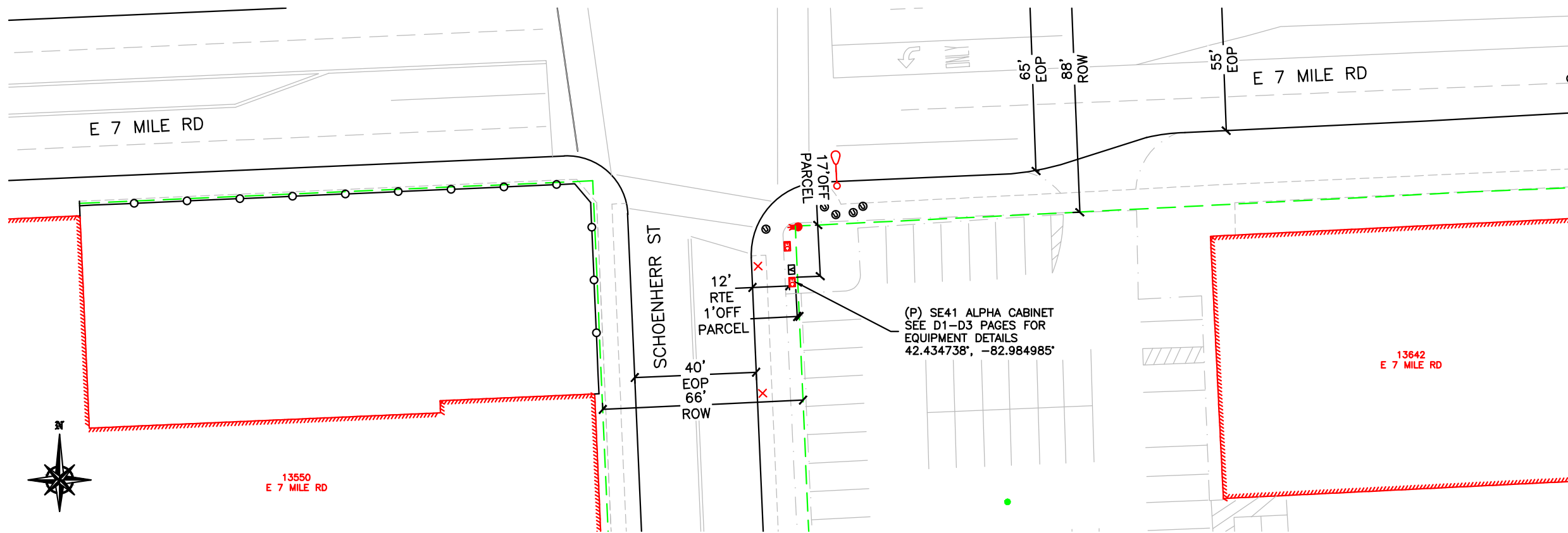
DETROIT MICHIGAN

SHEET TITLE:

GENERAL NOTES
ABBREVIATIONS & SYMBOLS

SHEET NUMBER:

L1



ROUTE PLAN

0' 10' 20' 40' B-SCALE 1"=40'-0" D-SCALE 1"=20'-0" 1

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NC-MI-DTBUND-TMO
DE02029B
SE41 ALPHA CABINET

PROJECT LOCATION:

DETROIT MICHIGAN

SHEET TITLE:

ROUTE PLAN
7 MILE RD
& BARLOW ST

SHEET NUMBER:

P1

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SE41 ALPHA CABINET

PROJECT LOCATION:

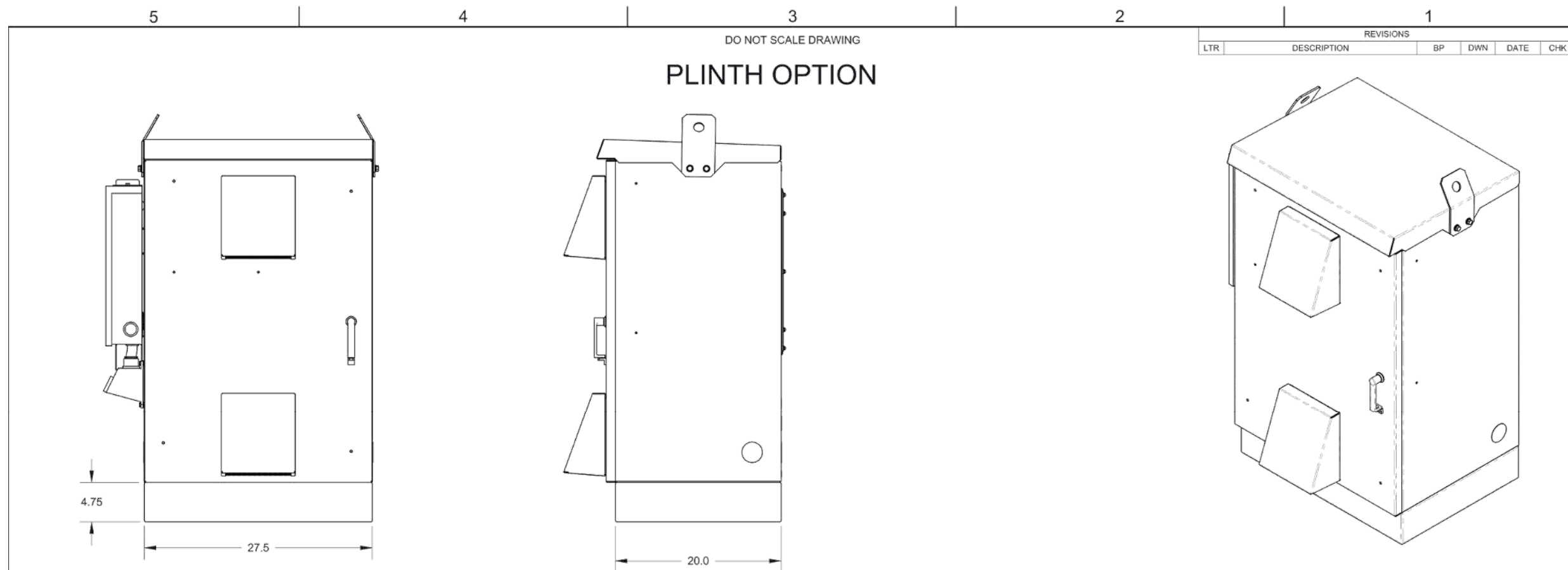
DETROIT MICHIGAN

SHEET TITLE:

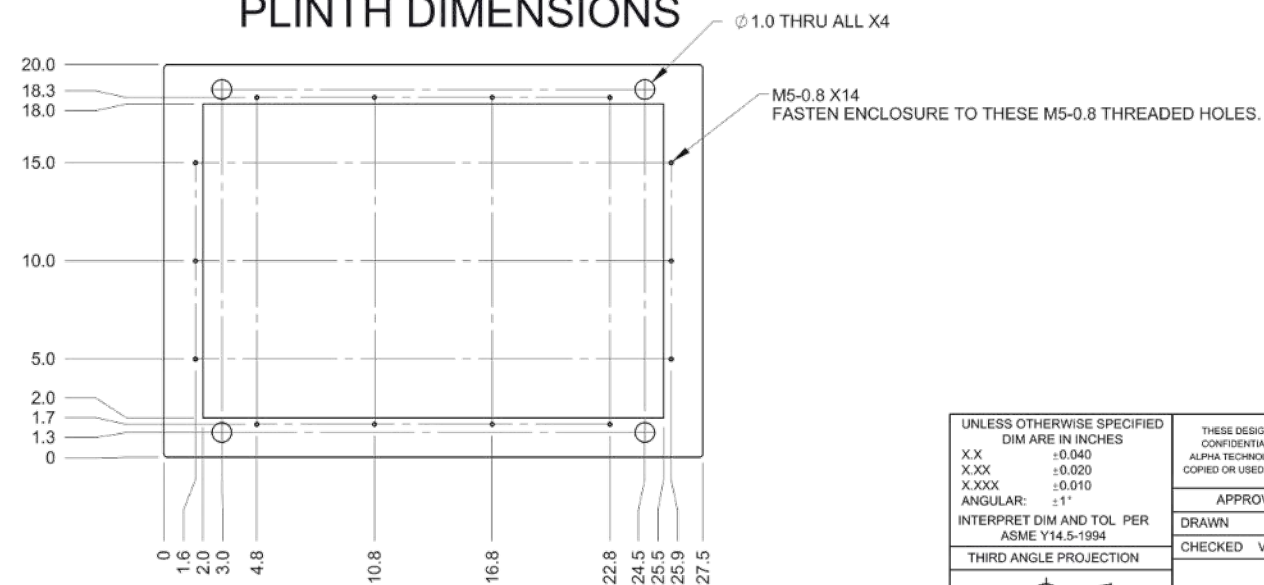
ROUTE PLAN E MONTCALM ST & BRUSH ST

SHEET NUMBER:

D1



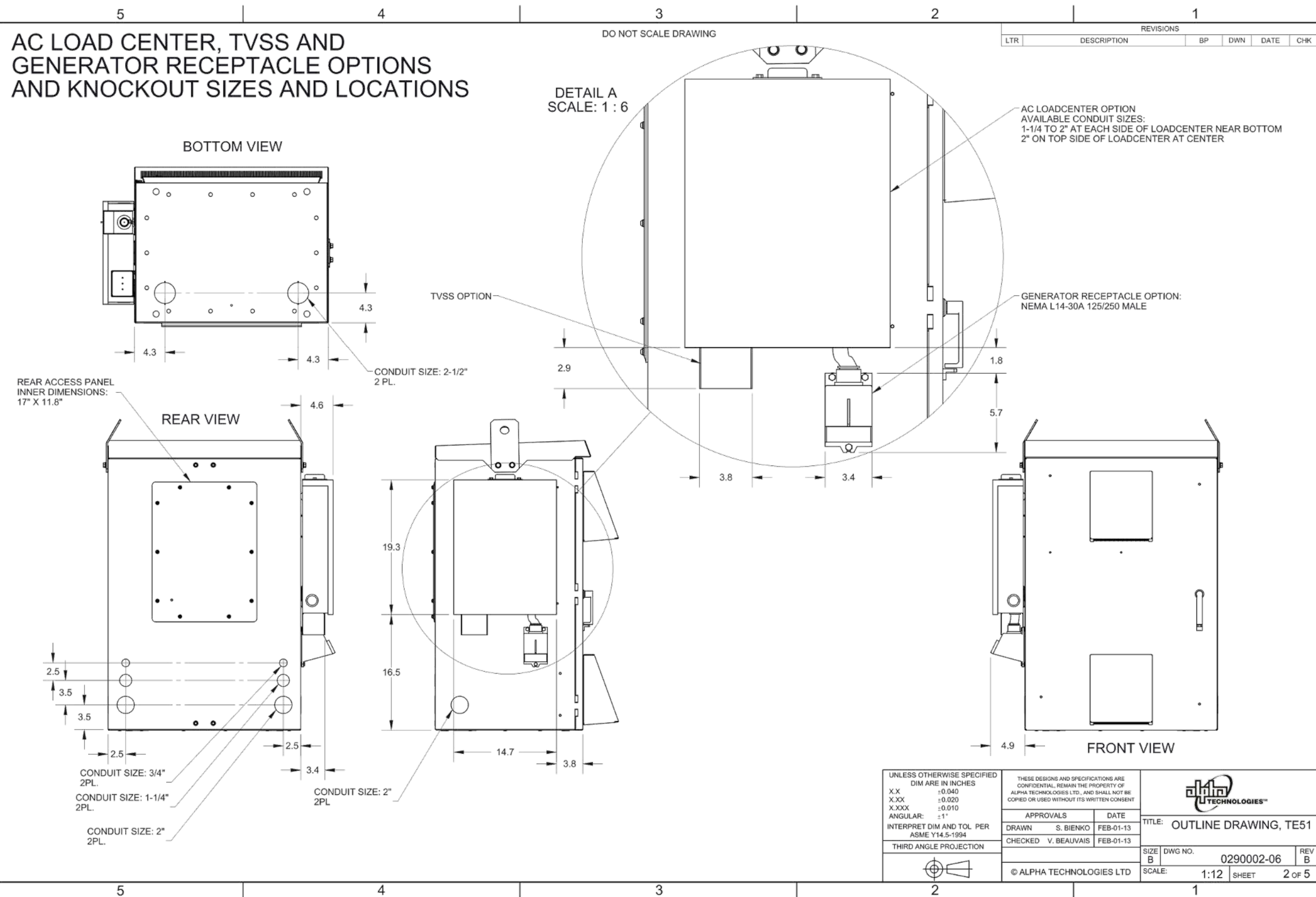
PLINTH DIMENSIONS



NOTE:
 1. REMOVAL OF THE BATTERY TRAYS (IF INSTALLED) MAY BE REQUIRED TO MOUNT THE ENCLOSURE TO THE PLINTH.
 2. FASTEN ENCLOSURE TO PLINTH WITH PROVIDED M5 SCREWS.

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X.XX	±0.020			TITLE: OUTLINE DRAWING, TE51	
X.XXX	±0.010			DRAWN S. BIENKO DATE FEB-01-13	
ANGULAR:	±1°			CHECKED V. BEAUVAIS DATE FEB-01-13	
INTERPRET DIM AND TOL PER ASME Y14.5-1994				SIZE DWG NO. 0290002-06 REV B	
THIRD ANGLE PROJECTION				SCALE: 1:12 SHEET 5 OF 5	
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AC LOAD CENTER, TVSS AND GENERATOR RECEPTACLE OPTIONS AND KNOCKOUT SIZES AND LOCATIONS



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SHEET NUMBER:

D2

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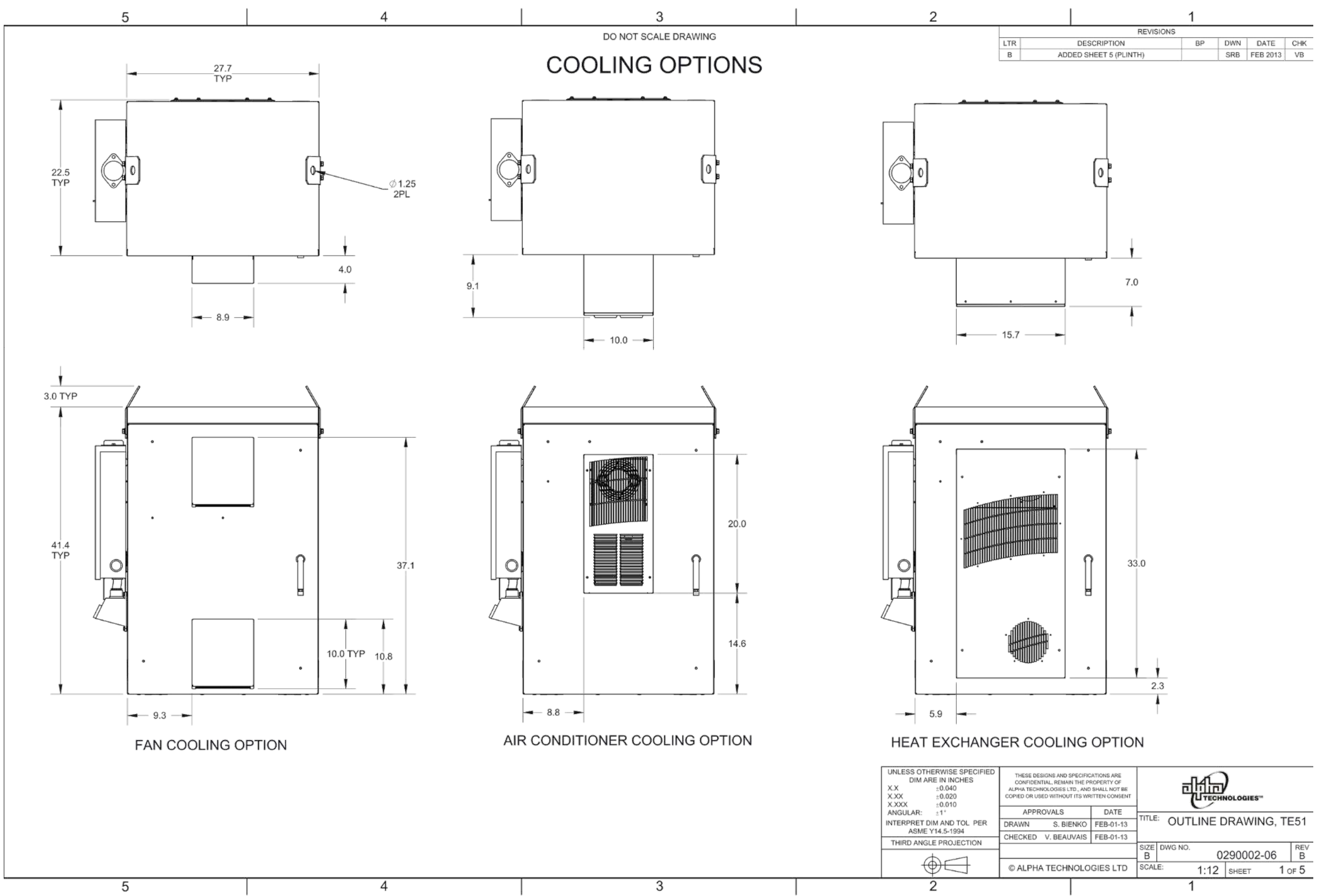
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**DE02029B
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SHEET TITLE:
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 E MONTCALM ST
 & BRUSH ST**

SHEET NUMBER:
D3



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NC-MI-DTBUND-TMO
DEYH006A
ALPHA CABINET (B)
DETROIT, MI



REVISIONS:

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EXTENET PROJECT TEAM

PERMITTING AGENCIES

SHEET INDEX

VICINITY MAP

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MDOT:
DETROIT TSC
CONTACT: OCTAVIA SHAMILY
PHONE: (313) 967-5436
SHAMILYO@MICHIGAN.GOV

C1	COVER SHEET & PROJECT INFORMATION
C2	PROJECT KEY MAP
L1	GENERAL NOTES ABBREVIATIONS & SYMBOLS
P1	GRATIOT AVE & RANDOLPH ST
D1	GROUND MOUNTED EQUIPMENT DETAILS



PROJECT DESCRIPTION

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DEYH006A

PROJECT LOCATION:

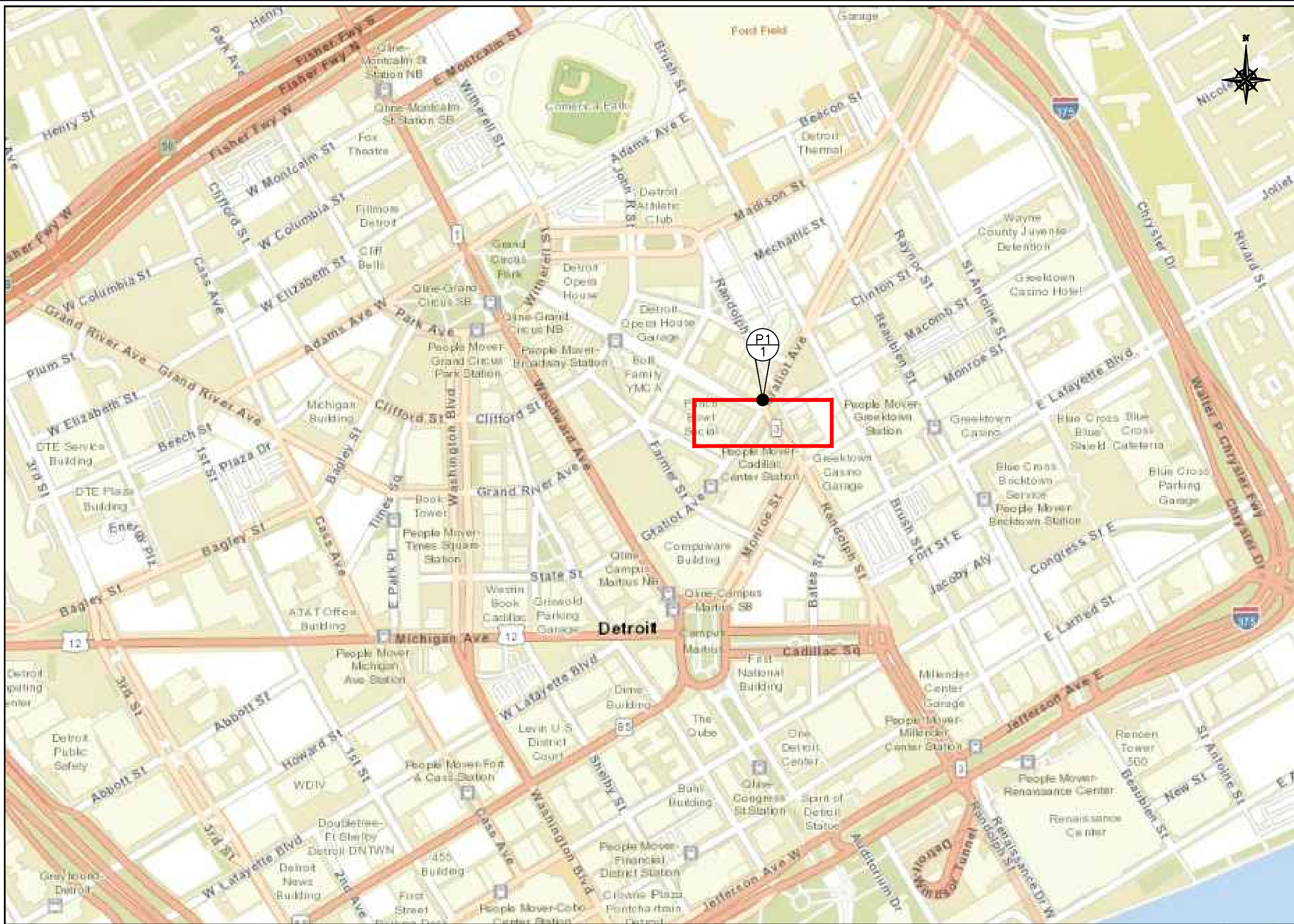
20 W ELIZABETH ST
DETROIT, MI 48201

SHEET TITLE:

COVER SHEET &
PROJECT INFORMATION

SHEET NUMBER:

C1



PROJECT KEY MAP

SCALE
NTS 1

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Plymouth, MI 48170

REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/4/2020	PERMITTING	JL
1	3/12/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO
DEYH006A

PROJECT LOCATION:

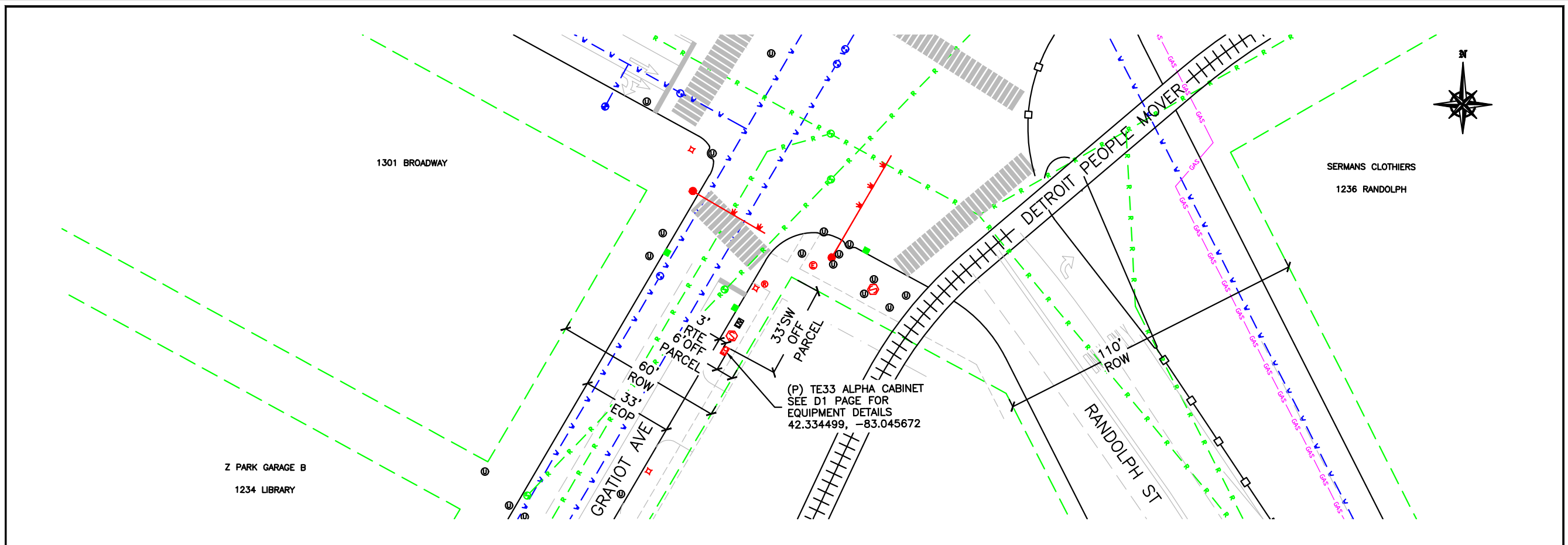
20 W ELIZABETH ST
DETROIT, MI 48201

SHEET TITLE:

PROJECT KEY MAP

SHEET NUMBER:


C2



ROUTE PLAN


0' 10' 20' 40' B-SCALE 1"=40'-0" D-SCALE 1"=20'-0" 1

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REVISIONS:

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#	DATE	DESCRIPTION	INT.

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

NC-MI-DTBUND-TMO DEYH006A

PROJECT LOCATION:

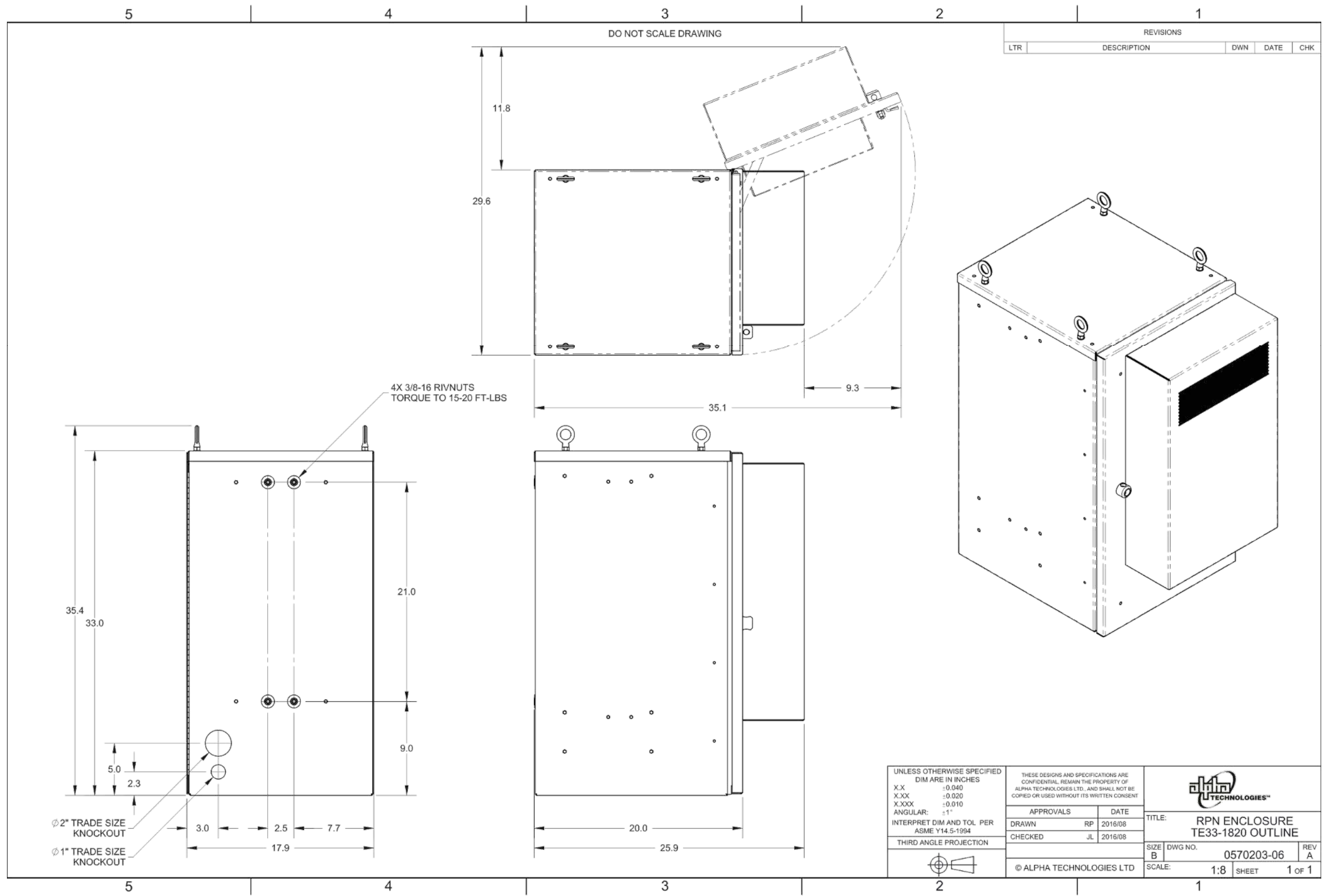
**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

**ROUTE PLAN
GRATIOT AVE &
RANDOLPH ST**

SHEET NUMBER:

P1



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REVISIONS:

#	DATE	DESCRIPTION	INT.
2	6/4/2020	PERMITTING	JL
1	3/12/2020	PERMITTING	JL

PROFESSIONAL STAMP

ISSUED FOR PERMITTING

PROJECT NAME:

**NC-MI-DTBUND-TMO
DEYH006A**

PROJECT LOCATION:

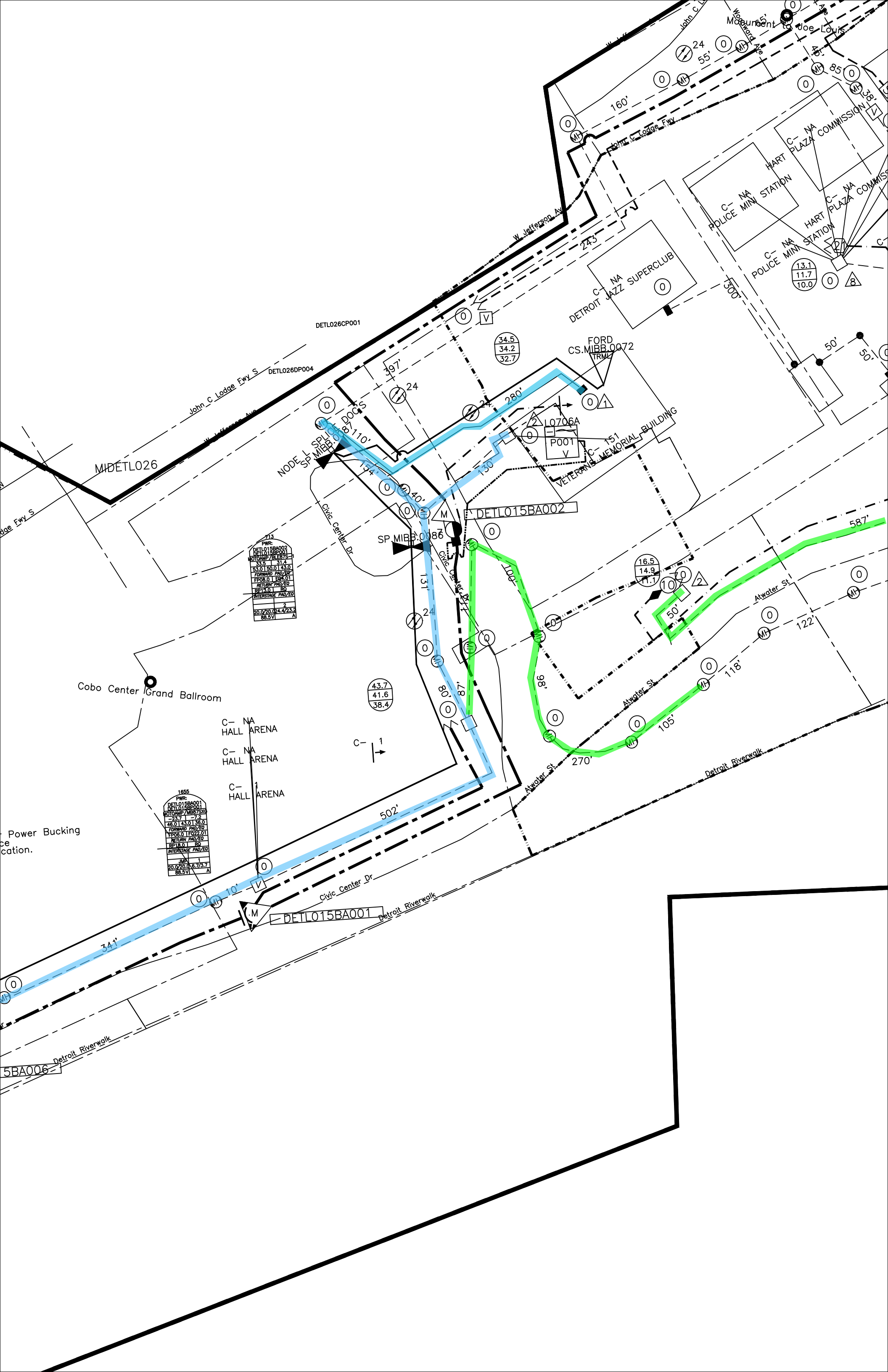
**20 W ELIZABETH ST
DETROIT, MI 48201**

SHEET TITLE:

**ROUTE PLAN
E MONTCALM ST
& BRUSH ST**

SHEET NUMBER:

D1



713

PWR:	
DETLO15BA002	
DETLO15BA001	
MOTOCAMP/BLERYS	
33.5	31.4
53.0	50.0
43.0	43.0
FORWARD PAD/ED	
18.0	18.0
RETURN PAD/ED	
18.0	18.0
INTERSTAGE PAD/ED	
20.0	20.0
24.4	23.2
88.5	86.5
VI	A

1655

PWR:	
DETLO15BA001	
DETLO15BA002	
MOTOCAMP/BLERYS	
23.7	7.2
46.0	43.0
36.0	36.0
FORWARD PAD/ED	
18.0	18.0
RETURN PAD/ED	
18.0	18.0
INTERSTAGE PAD/ED	
20.0	20.0
24.4	23.2
88.5	86.5
VI	A

MIDETL026

DETLO26CP001

John C Lodge Fwy S DETLO26DP004

DETLO15BA002

SP MIBB.08110

SP MIBB.0886

Cobo Center Grand Ballroom

C- NA HALL ARENA
C- NA HALL ARENA
C- HALL ARENA

Power Bucking
ce cation.

DETLO15BA001

5BA006



776
PWR:
DETLO17DA005
DETLO17BA006
MOTORAMP/MBB75XG
28.9 24.6
48.01 43.01 36.0
FORWARD PAD/ED
FPO2.0 F04.01
RETURN PAD/ED
RPO3.0 R0
INTERSTAGE PAD/ED
DC-12
20.0/20.0/25.0/25.0
89.6V A

787
PWR:
DETLO17BA005
DETLO17BA006
MOTORAMP/MBB75XG
19.2 20.9
48.01 43.01 36.0
FORWARD PAD/ED
FPO2.0 F04.01
RETURN PAD/ED
RPO3.0 R0
INTERSTAGE PAD/ED
20.0/20.0/25.0/25.0
89.6V A

787
PWR:
DETLO17BA006
DETLO17BA007
MOTORAMP/MBB75XG
19.2 20.9
48.01 43.01 36.0
FORWARD PAD/ED
FPO2.0 F04.01
RETURN PAD/ED
RPO3.0 R0
INTERSTAGE PAD/ED
20.0/20.0/25.0/25.0
89.6V A

C-NA
46.0
43.0
36.0

144

SP MIBB-0032

SP MIBB-0033

SP MIBB-0034

SP MIBB-0035

SP MIBB-0036

MIDETLO19
DETLO19AP001

37.2
35.2
30.4

20.8
18.3
13.2

15.4
14.4

15.4
14.4

15.4
14.4

15.4
14.4

DETLO17BP002

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

MIDETLO17
DETLO17CP001

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

DETLO24AP002

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

DETLO24AP001

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

20.5
19.1
15.4

DETLO17BA004

INTERSTAGE PAD/ED
20.0/20.0/35.0/35.0
89.6V
A

GRAND CIRCUS PARK

Madison St

DETROIT OPERA HOUSE
CS.MIBB.0062
TRML

PARKING LOT

MADISON-LENOX HOTEL

THE ASHLEY APTS

HARMONIE PARK

DETLO17BA008

ALPHA DATA SERVICES

Broadway Station

DETLO17DA002

DETLO17BA006

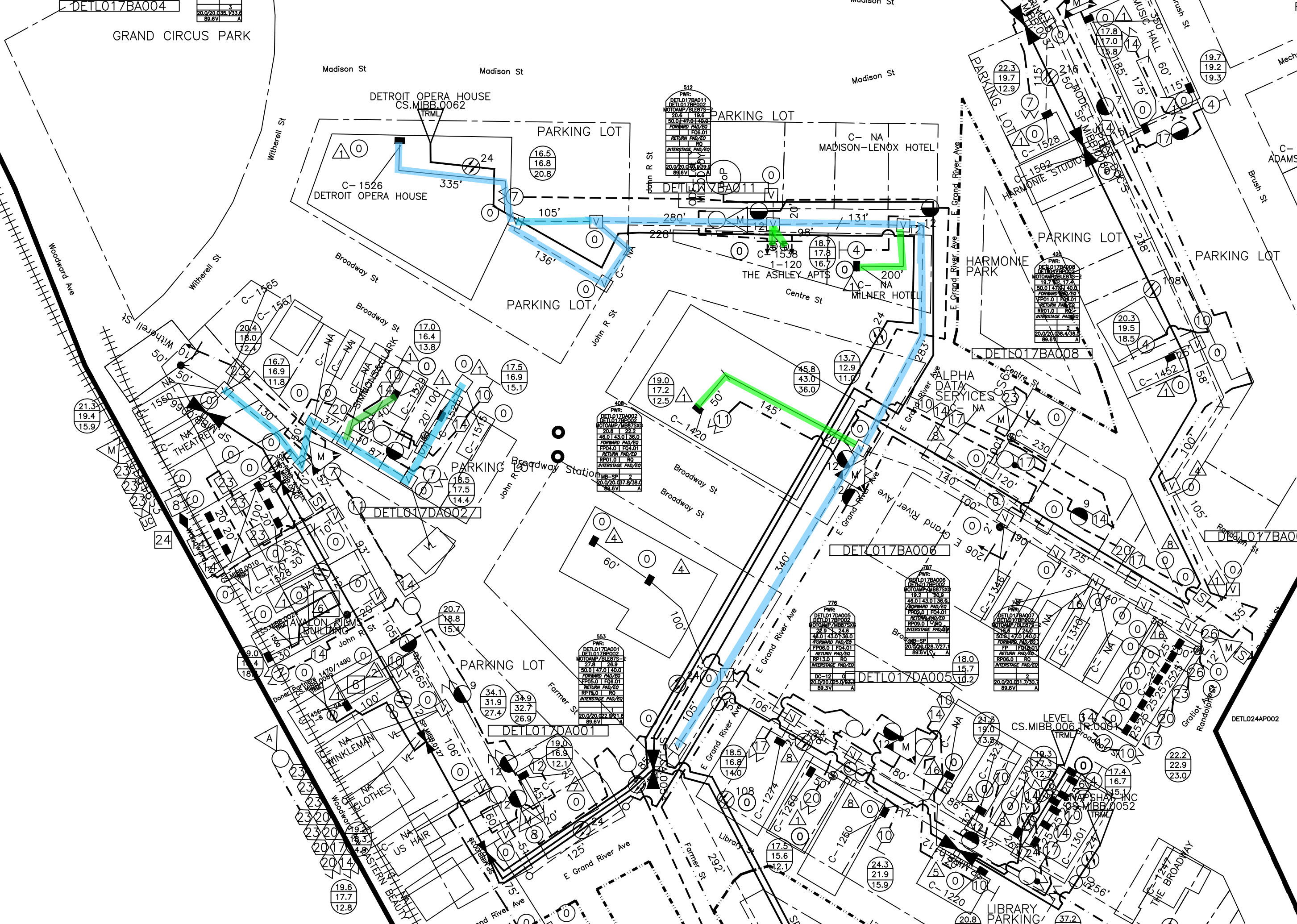
DETLO17BA007

DETLO17DA001

DETLO17DA005

CS.MIBB.006 TR.000

DETLO24AP002



512
PWR:
DETLO17BA011
DETLO17BA002
NOT CAMP/BLBS7S
50.0/47.8/46.0
20.8/19.6
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/46.0/39.0
89.6V
A

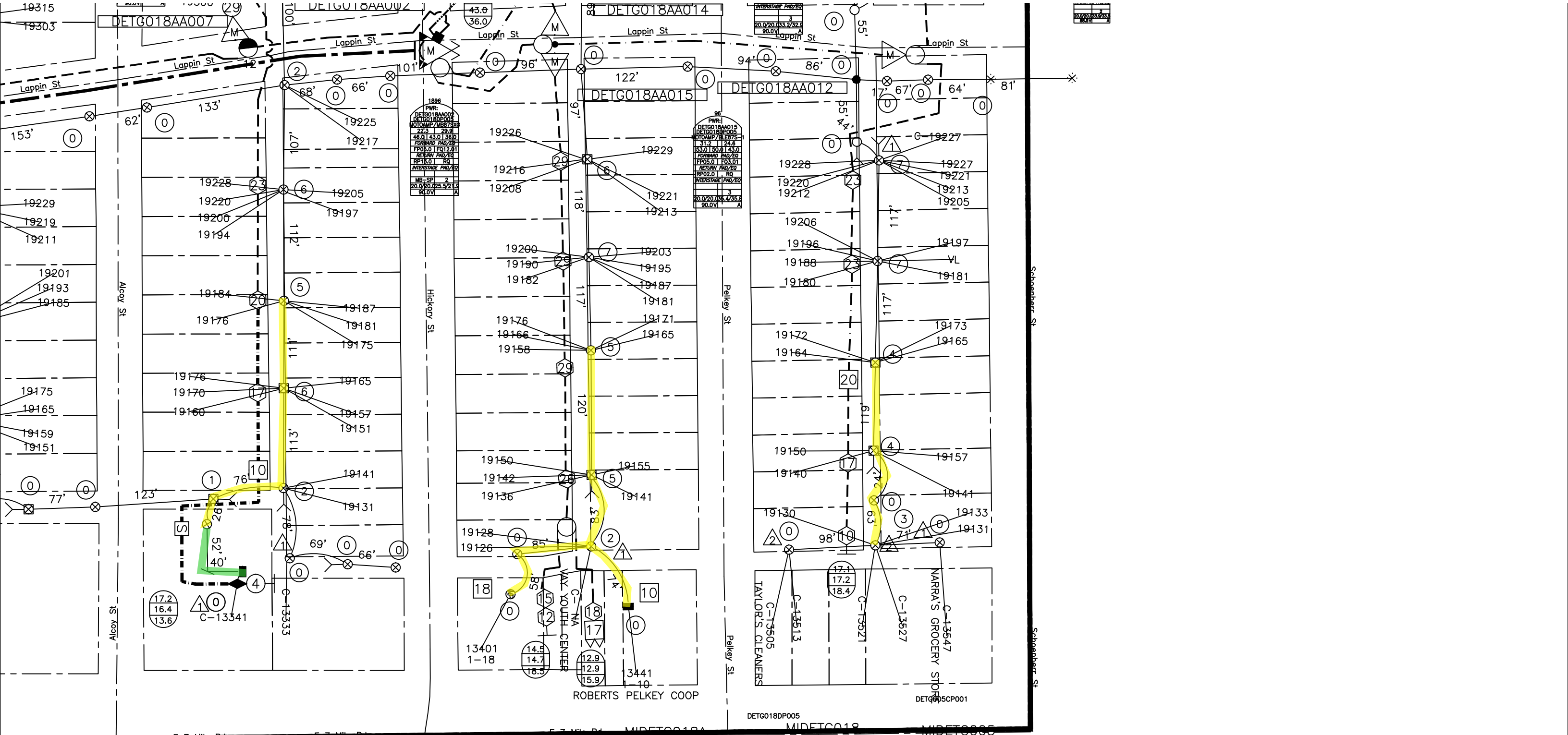
406
PWR:
DETLO17DA002
DETLO17BA002
NOT CAMP/BLBS7S
20.8/19.6
46.0/43.0/36.0
15.8/15.1
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/37.8/38.0
89.6V
A

553
PWR:
DETLO17DA001
DETLO17BA002
NOT CAMP/BLBS7S
27.8/26.9
50.0/47.0/40.0
15.8/15.1
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/22.9/21.8
89.6V
A

776
PWR:
DETLO17DA005
DETLO17BA005
NOT CAMP/BLBS7S
27.9/24.8
46.0/43.0/36.0
15.8/15.1
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/28.7/27.1
89.6V
A

787
PWR:
DETLO17BA006
DETLO17BA002
NOT CAMP/BLBS7S
18.7/17.4
46.0/43.0/36.0
15.8/15.1
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/31.7/30.7
89.6V
A

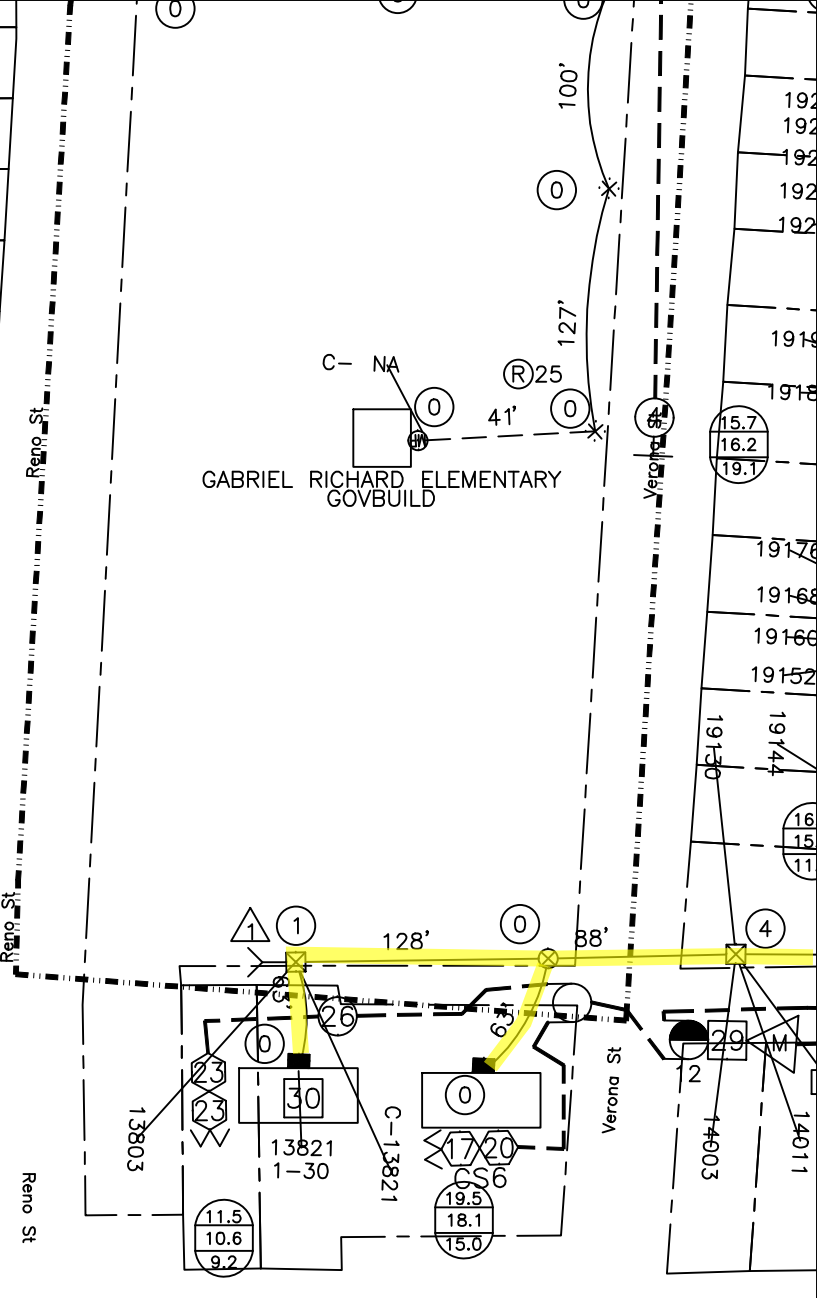
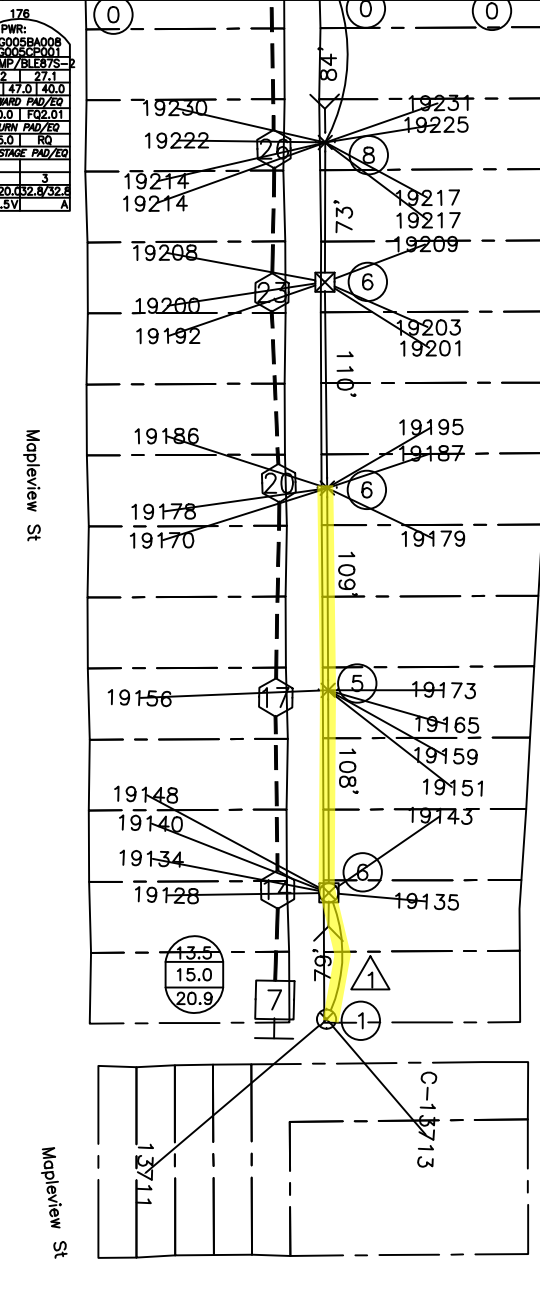
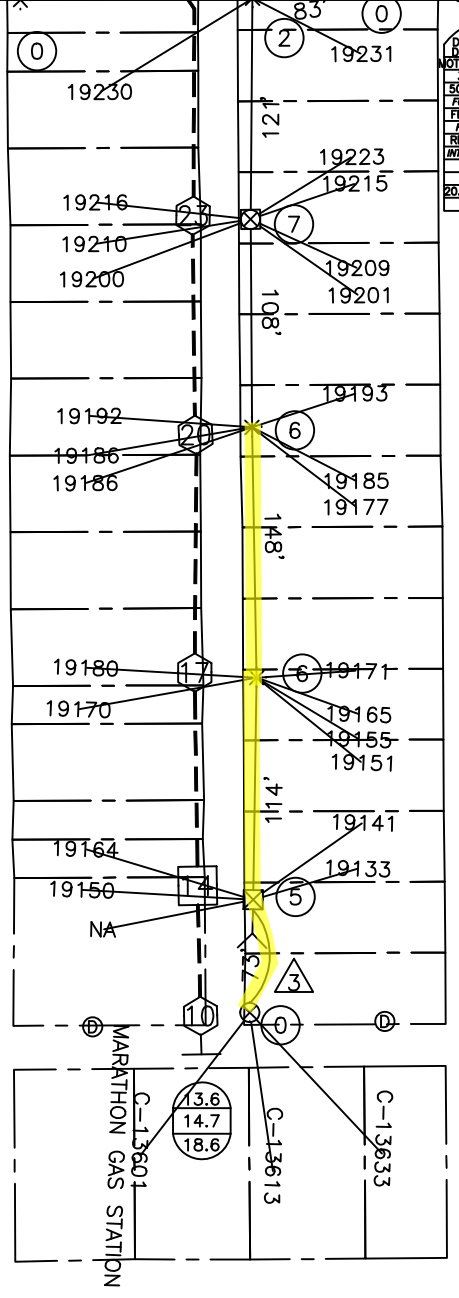
787
PWR:
DETLO17BA007
DETLO17BA002
NOT CAMP/BLBS7S
18.6/17.4
50.8/47.0/40.0
15.8/15.1
FORWARD PAD/ED
15.8/15.1
RETURN PAD/ED
20.0/20.0/31.7/30.7
89.6V
A



MIDETG035

DETGO03CP003 MIDETG035C

DETGO17DP001 MIDETG017



DETG005C001

MIDETG005 E 7 Mile Rd

GABRIEL RICHARD ELEMENTARY GOVBUILD

C- NA

R25

41'

E 7 Mile Rd

E 7 Mile Rd

E 7 Mile Rd

C- NA

