verizon

APPROVED

ZONING REVIEW ONLY

NMJ 02/02/2017

SITE NAME:

MIN SOUTHTOWN SC1

SITE NUMBER:

20141029022

LOCATION CODE:

289036

SITE TYPE:

SMALL CELL

POLE TYPE:

REPLACEMENT LIGHT POLE

NO:

C-1

C-2

A-1

A-4

F-1

E-2

G-2





1360 Energy Park Drive, Suite 210 St. Poul, MN 55108 651.225.0793 valce

Edge

17645 Juniper Path, Suite 105 Lakeville, MN 55044 608,644,1449 voice 608,644,1549 fax www.edgeconsuit.com

PROJECT NO:	20141029022
EDGE PROJECT NO:	14969
DRAWN BY:	NBT
CHECKED BY:	OGD

,		_
DATE	DESCRIPTION	L . '
08/15/2016	PRELIM SMALL CELL DWGS	TKB
08/30/2016	FINAL DWGS	TKB
10/11/2016	FINAL DWGS	NBT
	08/15/2016 08/30/2016	DATE DESCRIPTION 08/15/2016 PRELIM SMALL CELL DWGS 08/30/2016 FINAL DWGS 10/11/2016 FINAL DWGS



I HEREBY CERTIFY THAT THIS PLAN, SPECFICATION OR REPORT WAS PREPARED BY ME OR UNDER M DIRECT SUPERMISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THI LAWS OF THE STATE OF MINNESOTA.

> MIN SOUTHTOWN SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

> > SHEET TITLE

TITLE SHEET & PROJECT DATA

SHEET NUMBER

| **-**'|

SITE INFORMATION

APPROXIMATE ADDRESS: 7803 PENN AVE. BLOOMINGTON, MN 55431 HENNEPIN COUNTY

LATITUDE & LONGITUDE: LAT: 44°-51'-37.12"N LONG: 93°-18'-26.14"W GROUND ELEVATION: 830' AMSL (PER 1A CERTIFICATE)

POLE HEIGHT: 36'-9" T.O.C.

MAXIMUM APPURTENANCE HEIGHT: 40'-0" A.G.L.

APPLICABLE CODES

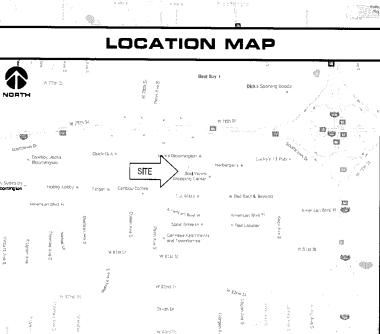
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2012 INTERNATIONAL BUILDING CODE
- 2014 NATIONAL ELECTRIC CODE - TIA/EIA-222-G OR LATEST EDITION

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

LOCATION SCAN





AREA MAP

INSTALLATION OF PANEL ANTENNAS

INSTALLATION OF ERICSSON RRU'S AND POWER CONVERTERS

INSTALLATION OF LOAD CENTER/BREAKER BOX

INSTALLATION OF LOAD CENTER/BREAKER BOX

INSTALLATION OF HAND HOLE FOR FIBER AT POLE BASE, BY VERIZON

INSTALLATION OF HAND HOLE FOR ELECTRIC TO UTILIZE EXISTING CONDUIT, BY VERIZON

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE (APPROX. 6⁴-6"), TO BE DIRECTIONALLY BORED BELOW GRADE, BY VERIZON

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND ROW, (APPROX. 350⁴-0" IN LENGTH) TO BE DIRECTIONALLY BORED BELOW GRADE, BY VERIZON

INSTALLATION OF CONDUIT FOR ELECTRIC BETWEEN HAND HOLE AND POLE BASE (APPROX. 180⁴-0"), TO BE DIRECTIONALLY BORED BELOW GRADE, BY VERIZON

EXISTING ELECTRIC CONDUIT TO BE UTILIZED

INSTALLATION OF GROUND RING AROUND POLE FOUNDATION

PROJECT DESCRIPTION/SOW

INSTALL (1) REPLACEMENT 36-FT 9-IN STEEL LIGHT POLE AND ASSOCIATED

ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

PROJECT DIRECTORY

LESSEE:
VERIZON WIRELESS
10801 BUSH LAKE RD
BLOOMINGTON, MN 55438
CONTACT: COURTNEY BEDNARZ
PHONE: 952,946,4694

ENGINEERING COMPANY:
EDGE CONSULTING ENGINEERS, INC.
17645 JUNIPER PATH
SUITE 105
LAKEVILLE, MN 55044
CONTACT: OTTO DINGFELDER III, P.E.
PHONE: 608.644.1449

SITE ACQUISITION:
BUELL CONSULTING, INC.
1360 ENERGY PARK DRIVE
SUITE 210
ST. PAUL, MN 55108
CONTACT: ROB VIERA
PHONE: 651.225.0792

ESSOR: KRAUS-ANDERSON INC. 523 8TH ST. S. MINNEAPOLIS, MN 55404

PHONE: 612,332,7281

RE ENGINEER:

VERIZON WIRELESS
10801 BUSH LAKE RD
BLOOMINGTON, MN 55438
CONTACT: MIHAELA OXLEY

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE SITE IS LOCATED.

11"x17" PLOT WILL BE HALF SCALE

UNLESS OTHERWISE NOTED

SHEET INDEX

SHEET TITLE

TITLE SHEET & PROJECT DATA

ENLARGED SITE PLAN

MOUNTING DETAILS

ANTENNA DETAILS

EQUIPMENT DETAILS

CABLING DETAILS

ELECTRICAL NOTES

GROUNDING DETAILS

CABLE MOUNTING DETAILS

POLE ELEVATION

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE, IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.

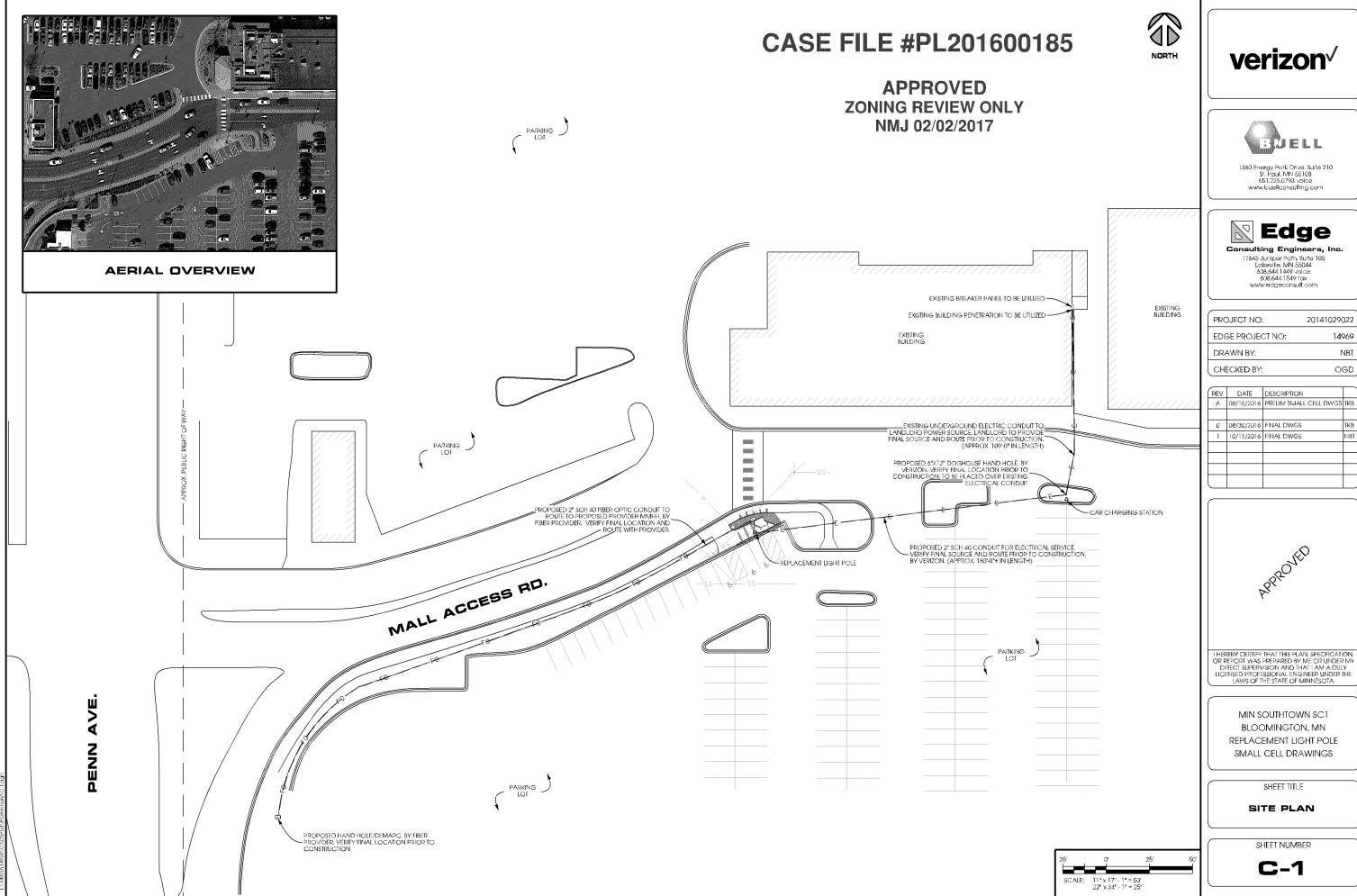
ENGINEER OF RECORD

EDGE CONSULTING ENGINEERS, INC. CONTACT: OTTO DINGFELDER III (PE # 49720 (MN)) PHONE: 608.644.1449

STRUCTURAL REVIEW

LIGHT POLE STRUCTURAL ANALYSIS TO BE COMPLETED BY OTHERS.

CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.



20141029022

14969

NBT

OGD



AERIAL OVERVIEW



SITE OVERVIEW [LOOKING NORTHEAST]



SITE OVERVIEW [LOOKING SOUTHWEST]

APPROVED ZONING REVIEW ONLY NMJ 02/02/2017

PROPOSED 2" SCH 40 FIBER OPTIC CONDUIT TO ROUTE TO PROPOSED PROVIDER MIMHH, BY FIBER PROVIDER: VERIFY FINAL LOCATION AND ROUTE WITH-PROVIDER: REPLACEMENT LIGHT POLE

EXISTING SIGN

verizon /

EUELL

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Edge Consulting Engineers, Inc. 17645 Juniper Path, Suite 105 Lakeville, MN 55044 608,644,1449 volce 608,644,1549 fax www.edgeconsult.com

20141029022

14969

NBT

OGD

PROJECT NO:

DRAWN BY:

CHECKED BY:

EDGE PROJECT NO:

REV. DATE DESCRIPTION

0 08/30/2016 FINAL DWGS 1 10/11/2016 FINAL DWGS

A 08/15/2016 PRELIM SMALL CELL DWGS TKB

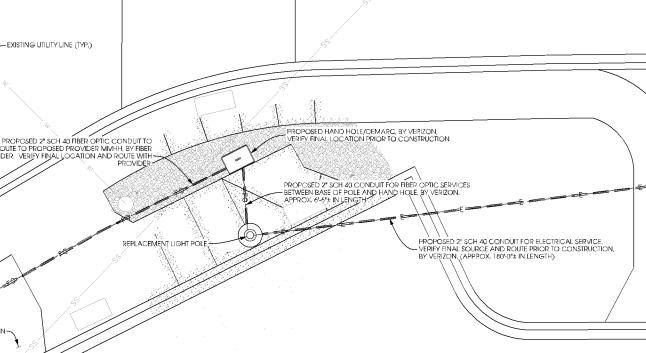
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MIN SOUTHTOWN SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

ENLARGED SITE PLAN

SHEET NUMBER





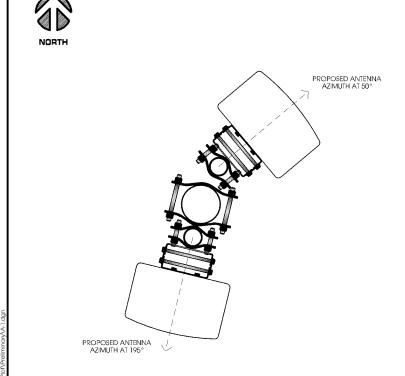
--- CROSSWALK

	NC	DDE INFO					RADIO						,	ANTENNA				
					Band	eNB ID	Model	DU#	DU Port#	AZIMUTH	POSITION	QTY	MFR.	MODEL	PORT	C/L	ADJ ELEC TILT	MECH TILT
PCI:	Full Node Name: (Name SC1	Node#)							50	1.1	1	JMA Wireless	X7CQAP-FRO-260-V	+45	25	0	0
TBD	southtowi	N SC1									1.2				-45			
100	Coordinates	DEG	MIN	SEC	AWS	TBD	RRUS32 B66/	1	TBD		1.3				+45			
	LATITUDE	44	51	37.12							1.4				-45			
	LONGITUDE	93	18	26.14	PCS	TBD	RRUS32 B2	1	TBD		1.5				+45			
	Ground Elevatio		8	30							1.6				-45			
										195	1.1	1	JMA Wireless	X7CQAP-FRO-260-V	+45	25	0	0
											1.2				-45			
						RF Splitter: (4)	d	cno 2 21	/ AAC		1.3				+45			
					r	r Splitter: (4)	ciearunk-ncs/	090-2./1	VINIS		1.4				-45			
											1.5				+45			
						1.6				-45								
	1A Coordinates	08-01-201	3 (())															

		(COAX			
QTY	TYPE	MFR.	MODEL	DIELECTRIC	DIA.	RUN
		TERMIN	IATE PORT	·s		
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
		TERMIN	IATE PORT	ζ.		
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
1	Jumper	Commiscope	LFD4-50	Foam	1/2"	TBE
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBE
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBE

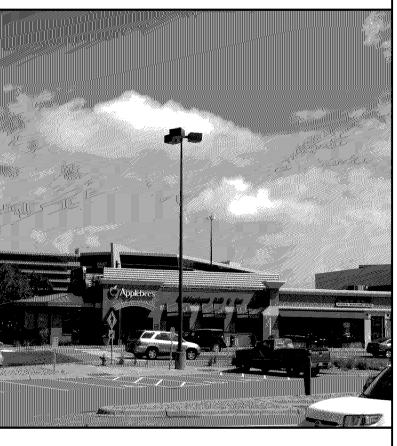
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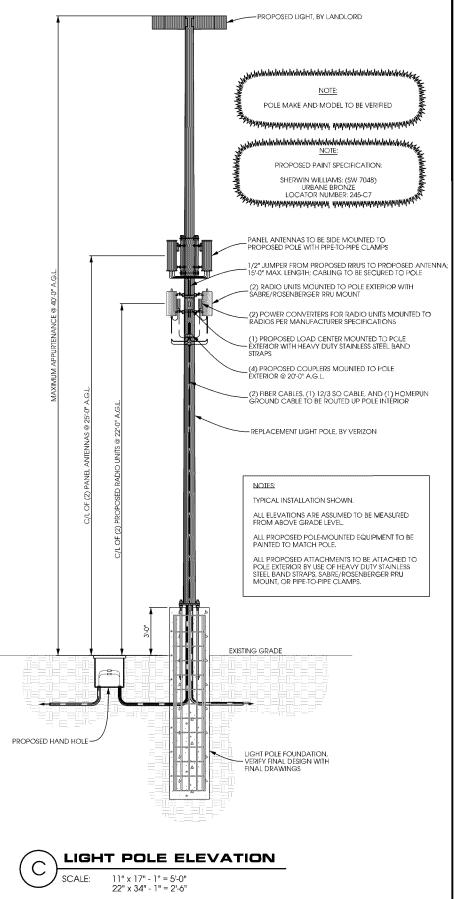


ANTENNA ORIENTATION

SCALE: NTS



LIGHT POLE ELEVATION







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PROJECT NO:	20141029022
EDGE PROJECT NO:	14969
DRAWN BY:	NBT

OGD

CHECKED BY:

REV.	DATE	DESCRIPTION	
Α	08/15/2016	PRELIM SMALL CELL DWGS	TKB
O	08/30/2016	FINAL DWGS	TKB
1	10/11/2016	FINAL DWGS	NBT



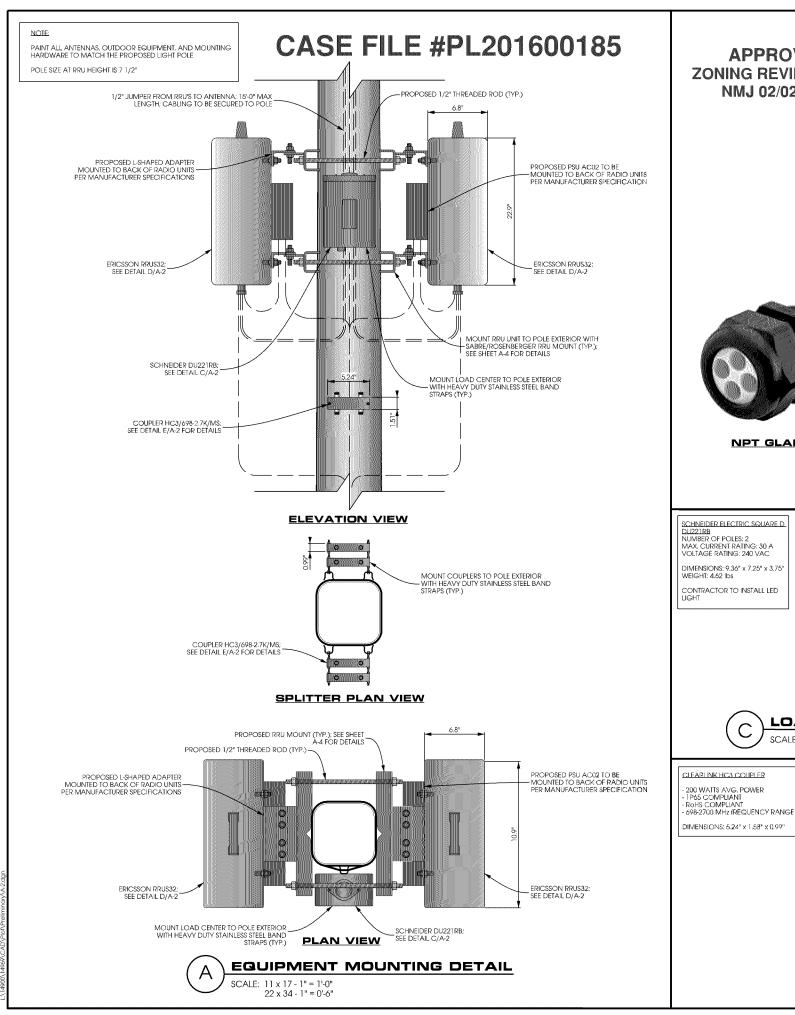
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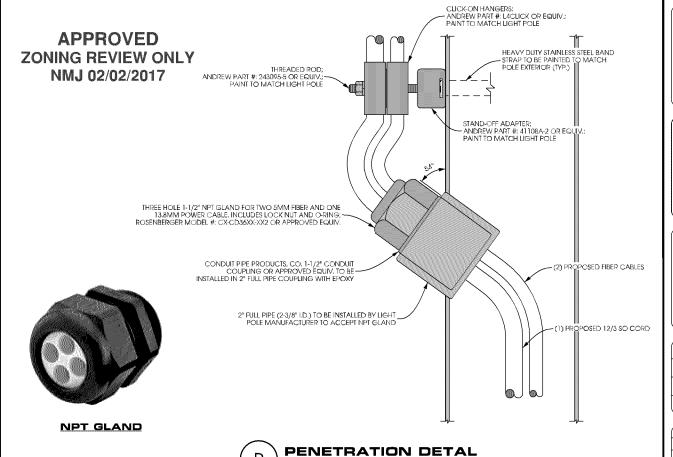
> MIN SOUTHTOWN SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

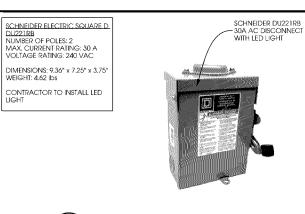
> > SHEET TITLE

POLE ELEVATION

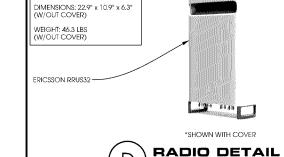












RICSSON RRUS32 SINGLE-BAND 4Tx/4Rx 40MHz IBW

- 40MHZ IBW - UP TO 4 x 40W OUTPUT POWER - SUPPORT 2 x 20MHz LTE - 2 PORTS x 10 Gbps CPRI



SCALE: NTS









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MIN SOUTHTOWN SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

MOUNTING DETAILS



SITE NAME: MIN SOUTHTOWN SC2

20151187111

LOCATION CODE: 320992

SITE NUMBER:

SITE TYPE: SMALL CELL

CONCRETE FOUNDATION

INSTALLATION OF PANEL ANTENNAS

REPLACEMENT LIGHT POLE POLE TYPE:

PROJECT DESCRIPTION/SOW

INSTALL (1) REPLACEMENT 36-FT 9-IN STEEL LIGHT POLE AND ASSOCIATED

verizon√

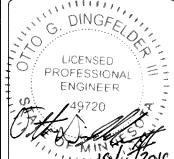


Edge

17645 Juniper Poth, Suite 105 608,644,1449 voice 608,644,1549 fax www.edgeconsult.com

PROJECT NO: 20151187111 EDGE PROJECT NO: 14970 DRAWN BY: NBT CHECKED BY: OGD

REV.	DATE	DESCRIPTION	
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			_



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> MIN SOUTHTOWN SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

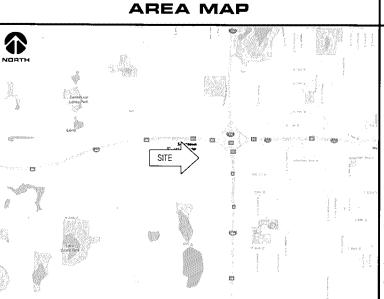
> > SHEET TITLE

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SHEET NUMBER

verizon

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INSTALLATION OF ERICSSON RRU'S AND POWER CONVERTERS INSTALLATION OF LOAD CENTER/BREAKER BOX INSTALLATION OF (4) COUPLERS

INSTALLATION OF HAND HOLE FOR FIBER AT POLE BASE, BY VERIZON INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND ROW, (APPROX. 533'-0" IN LENGTH) TO BE DIRECTIONALLY BORED BELOW GRADE, BY

INSTALLATION OF CONDUIT FOR ELECTRIC BETWEEN POLE BASE AND POWER SOURCE, (APPROX. 502'-0" IN LENGTH) TO BE DIRECTIONALLY BORED BELOW GRADE, BY VERIZON

INSTALLATION OF GROUND RING AROUND POLE FOUNDATION

(APPROX. 240"), TO BE TRENCHED BELOW GRADE, BY VERIZON

BUILDING PENETRATION REQUIRED FOR ELECTRIC SERVICE

ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

LO	CA	TI	ON	1 L	MΑ	P

PROJECT DIRECTORY

VERIZON WIRELESS 10801 BUSH LAKE RD BLOOMINGTON, MN 55438 CONTACT; COURTNEY BEDNARZ PHONE: 952,946,4694

ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC. LAKEVILLE, MN 55044

CONTACT: OTTO DINGFELDER III, P.E. PHONE: 608.644.1449

SITE ACQUISITION: BUELL CONSULTING, INC. 1360 ENERGY PARK DRIVE ST. PAUL, MN 55108 PHONE: 651.225.0792

KRAUS-ANDERSON INC. 523 8TH ST. S. MINNEAPOLIS, MN 55404 PHONE: 612.332,7281

RE ENGINEER: VERIZON WIRELESS 10801 BUSH LAKE RD BLOOMINGTON, MN 55438 CONTACT: MIHAELA OXLEY

ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME. ENGINEER OF RECORD

11"x17" PLOT WILL BE HALF SCALE

UNLESS OTHERWISE NOTED

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE SITE IS LOCATED.

CONTRACTOR SHALL VERIEV ALL PLANS AND EXISTING

DIMENSIONS/CONDITIONS ON SITE, IMMEDIATELY NOTIFY

SHEET INDEX

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ANTENNA DETAILS

EQUIPMENT DETAILS

CABLING DETAILS

ELECTRICAL NOTES GROUNDING PLAN

GROUNDING DETAILS

CABLE MOUNTING DETAILS

POLE ELEVATION

SITE PLAN

NO:

T-1

C-2

EDGE CONSULTING ENGINEERS, INC. CONTACT: OTTO DINGFELDER III (PE # 49720 (MN)) PHONE: 608.644.1449

STRUCTURAL REVIEW

LIGHT POLE STRUCTURAL ANALYSIS TO BE COMPLETED BY OTHERS

CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.

SITE INFORMATION

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES

LOCATION SCAN

APPROXIMATE ADDRESS:

BLOOMINGTON, MN 55431

7803 PENN AVE.

HENNEPIN COUNTY

LATITUDE & LONGITUDE:

LONG: 93°-18'-15,72"W

(PER 1A CERTIFICATE)

POLE HEIGHT:

36'-9" T.O.C.

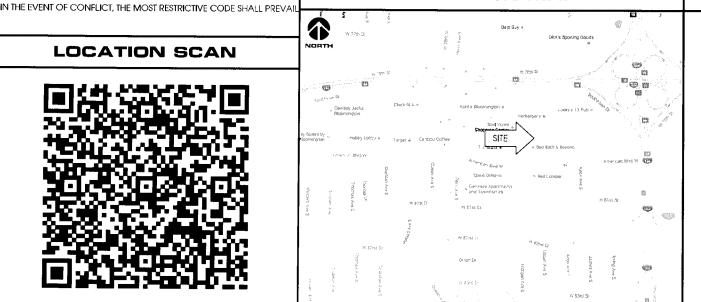
40'-0" A.G.L

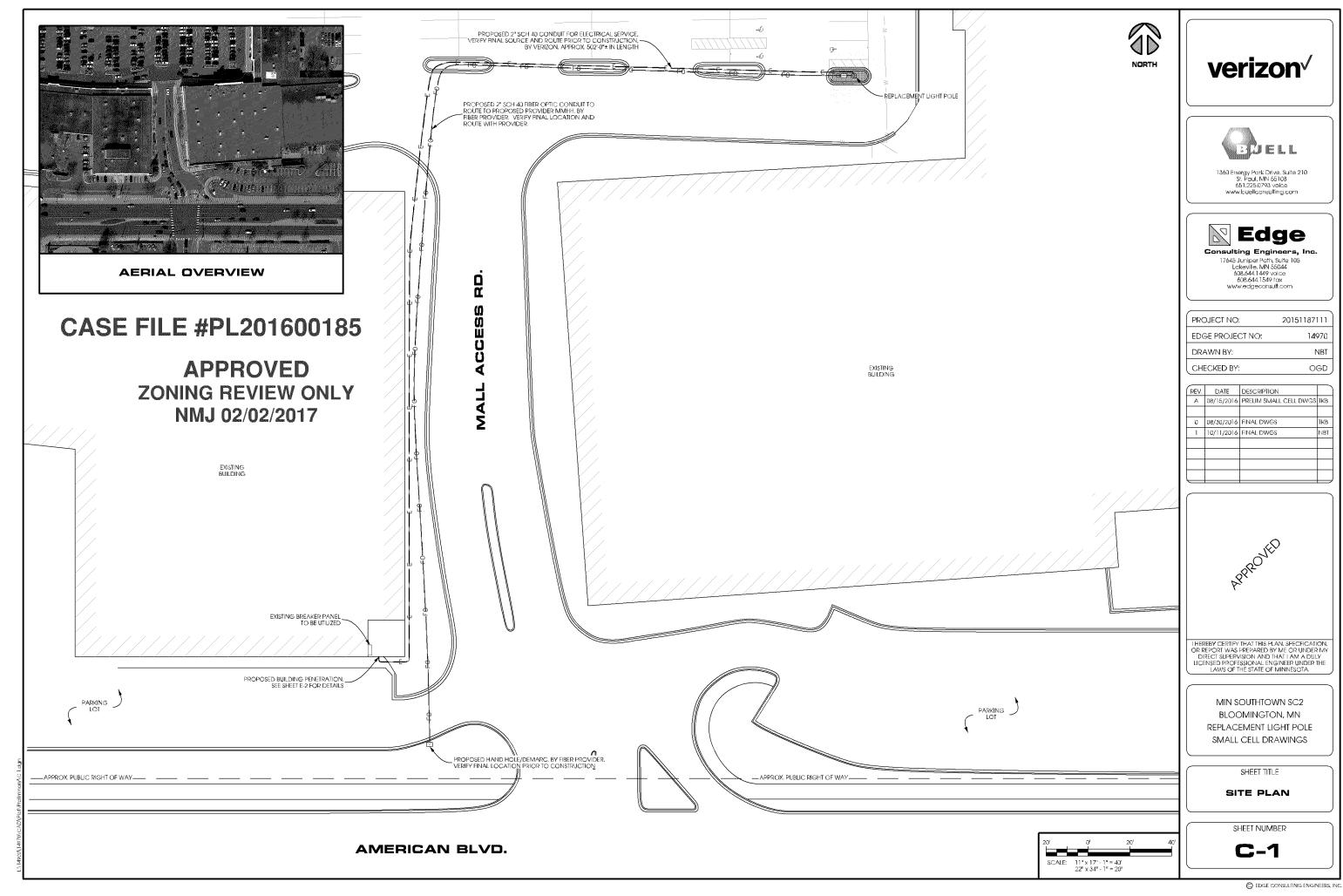
GROUND FLEVATION: 834' AMSL

MAXIMUM APPURTENANCE HEIGHT:

- 2012 INTERNATIONAL BUILDING CODE - 2014 NATIONAL ELECTRIC CODE

LAT: 44°-51'-34.77"N



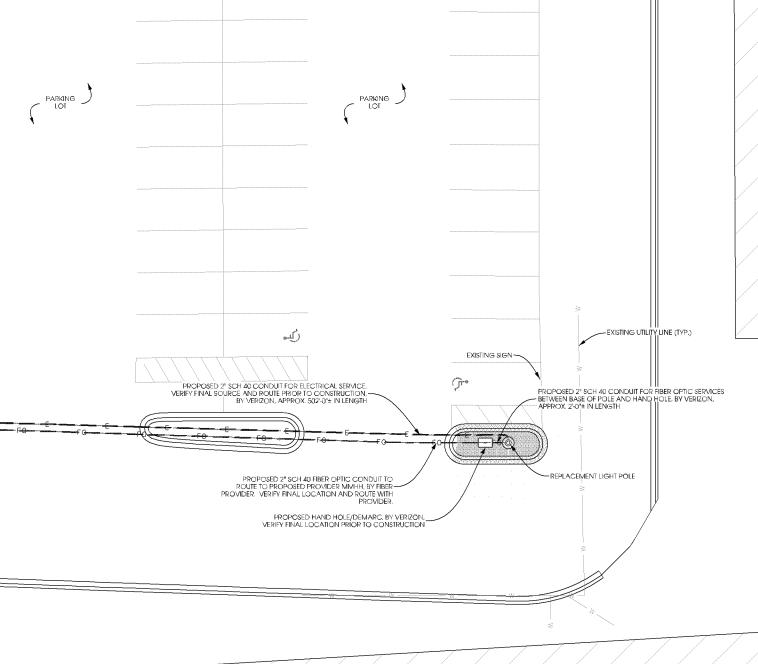






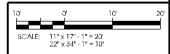


SITE OVERVIEW [LOOKING NORTH]



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EXISTING BUILDING





1



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> MIN SOUTHTOWN SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

> > SHEET TITLE

ENLARGED SITE PLAN

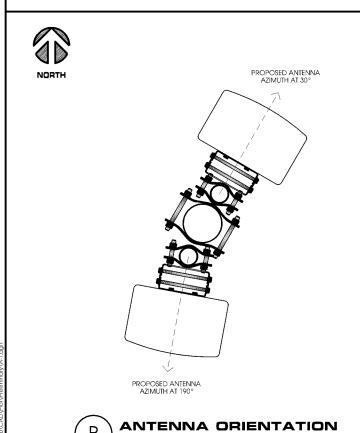


NODE INFO				RADIO				ANTENNA										
					Band	e NB ID	Model	DU#	DU Port#	AZIMUTH	POSITION	QTY	MFR.	MODEL	PORT	C/L	ADJ ELEC TILT	MECH TILT
PCI: TBD	Full Node Name: (SOUTHTOW! Coordinates LATITUDE LONGITUDE	N SC2 DEG 44 93	MIN 51 18	SEC 34.77 15.72	AWS PCS	TBD TBD	RRUS32 B66A RRUS32 B2	1	TBD TBD	30	1.1 1.2 1.3 1.4 1.5	1	JMA Wireless	X7CQAP-FRO-260-V	+45 -45 +45 -45 +45	35	0	0
Ground Elevation: 834 1A Coordinates 08-01-2016			RF	≈Splitter: {4} (ClearLink-HC3/6	98-2.7K	/ms	190	1.5 1.1 1.2 1.3 1.4 1.5 1.6	1	JMA Wireless	X7CQAP-FRO-260-V	+45 -45 +45 -45 +45 -45 +45		0	0		

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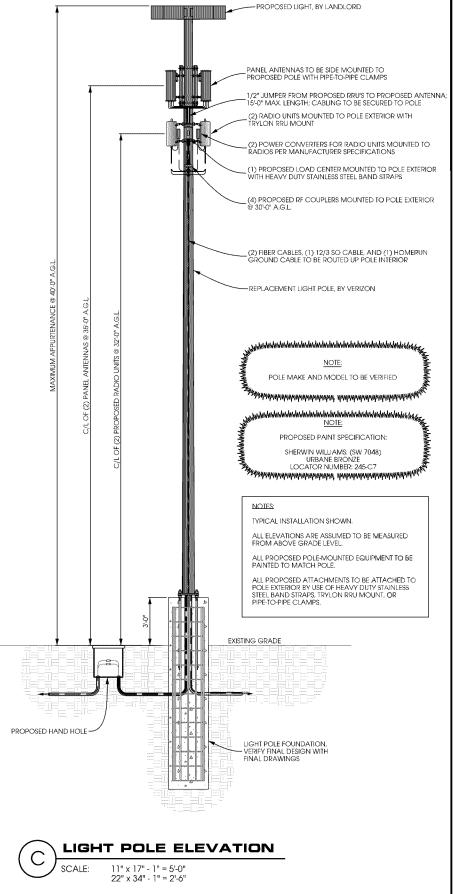
		c	OAX			
QTY	TYPE	MFR.	MODEL	DIELECTRIC	DIA.	RUN
		TERMIN	ATE POR	rs		
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1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBC
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBC
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBE
		TEDAMA	IATE POR	rc		
1	Jumper	Commscope	LFD4-50	Foam	1/2"	ТВ
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBD
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBC
1	Jumper	Commscope	LFD4-50	Foam	1/2"	TBC





SCALE: NTS









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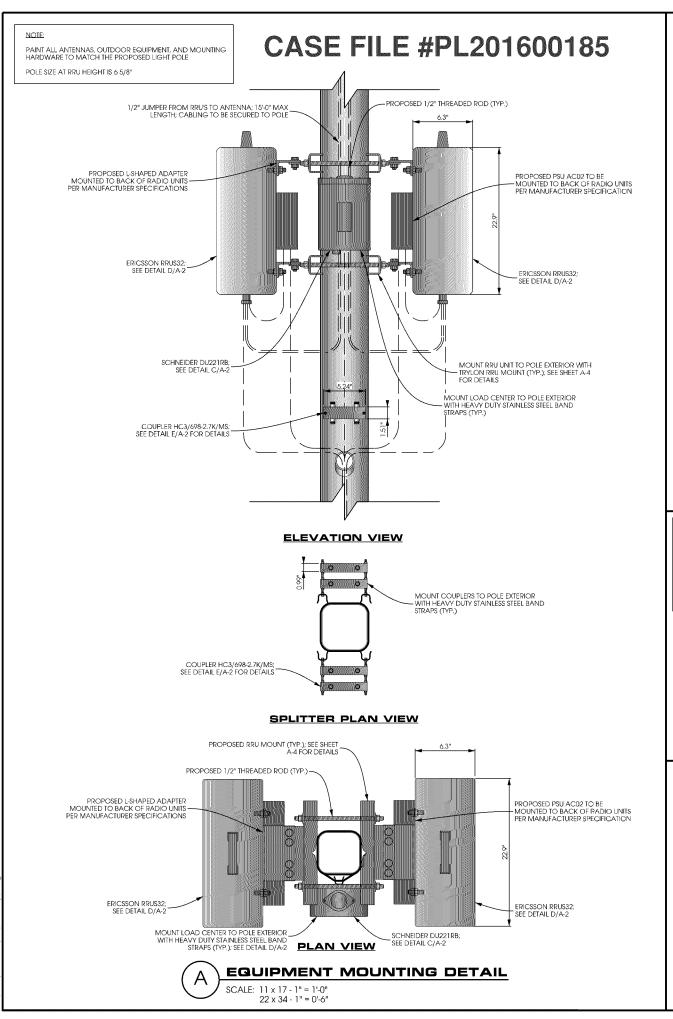
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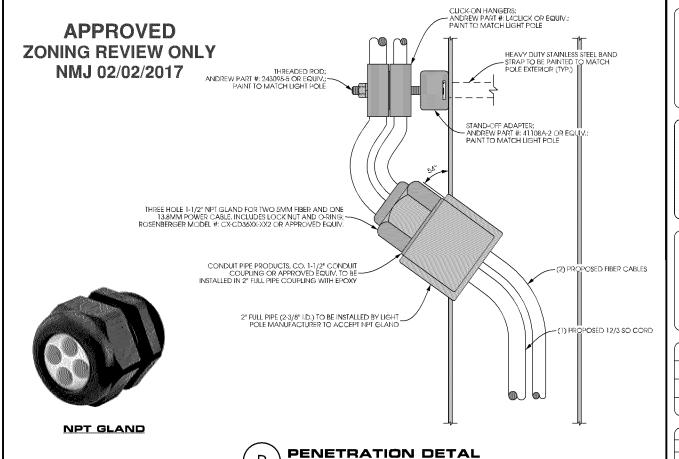
MIN SOUTHTOWN SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

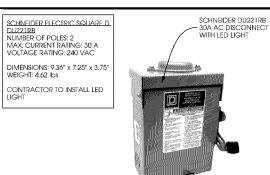
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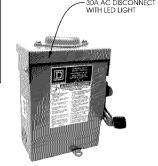
POLE ELEVATION



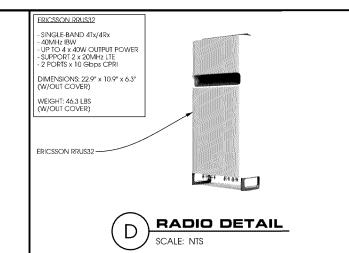












200 WATTS AVG. POWER - 200 WATTS AVG. TOWER - 1P65 COMPLIANT - ROHS COMPLIANT - 698-2700 MHz fREQUENCY RANGE DIMENSIONS: 5.24" x 1.58" x 0.99"









1360 Energy Park Drive, Suite 210 St. Paul, MN 55108 651.225.0793 voice www.buellconsulting.com



17645 Juniper Path, Suite 105 Lakeville, MN 55044 608.644.1449 voice 608.644.1549 fax www.edgeconsulf.com

PROJECT NO:	20151187111
EDGE PROJECT NO:	14970
DRAWN BY:	NBT
CHECKED BY:	OGD

REV.	DATE	DESCRIPTION	
Α	08/15/2016	PRELIM SMALL CELL DWGS	TKB
0	08/30/2016	FINAL DWGS	TKB
1	10/11/2016	FINAL DWGS	NBT



I HEREBY CERTIFY THAT THIS PLAN. SPECFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

MIN SOUTHTOWN SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

MOUNTING DETAILS

