Verizon

SITE NAME:

MIN LR 28TH AVE SC1

APPROVED

SITE NUMBER:

ZONING **201462527**

LOCATION CODE: 425930

SITE TYPE: SMALL CELL

INSTALLATION OF (2) PANEL ANTENNAS

INSTALLATION OF (4) HYBRID COUPLERS

INSTALLATION OF (1) LOAD CENTER

INSTALLATION TYPE: REPLACEMENT 30' LIGHT POLE

PROJECT DESCRIPTION/SOW

INSTALL (1) REPLACEMENT 30-FT STEEL LIGHT POLE AND ASSOCIATED CONCRETE

INSTALLATION OF ERICSSON RRU'S AND POWER CONVERTERS

INSTALLATION OF HAND HOLE FOR FIBER AT POLE BASE BY PROVIDER

INSTALLATION OF GROUND RODS AROUND POLE FOUNDATION

INSTALLATION OF PROPOSED ELECTRICAL METER BY VERIZON

INSTALLATION OF CONDUIT FOR NEW ELECTRIC SERVICES BY VERIZON

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND ROW BELOW

ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

verizon^v

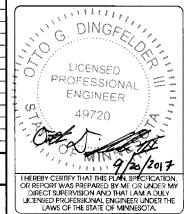




608,644,1549 fax www.edgeconsult.com

1	PROJECT NO:	20161462527
-	LOCATION CODE:	425930
	EDGE PROJECT NO:	14967
1	CHECKED BY:	OGD

REV.	DATE	DESCRIPTION	INT.
Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
В	08/01/2017	PRELIM SMALL CELL DWGS	тв
С	08/17/2017	PRELIM SMALL CELL DWGS	πв
0	09/19/2017	FINAL DWGS	DGS



MIN LR 28TH AVE SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE

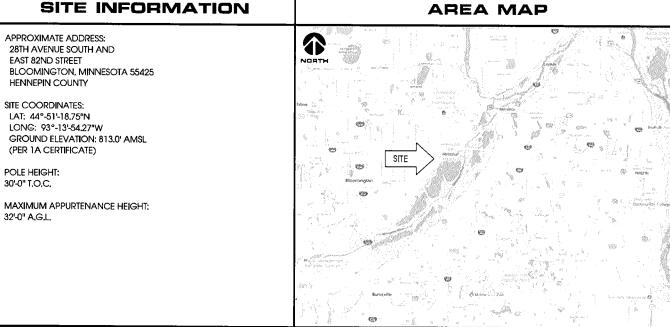
SHEET TITLE

SMALL CELL DRAWINGS

TITLE SHEET & PROJECT DATA

SHEET NUMBER

G-001



LOCATION MAP

SITE

PROJECT DIRECTORY

VERIZON WIRELESS BLOOMINGTON, MN 55438 CONTACT: COURTNEY BEDNARZ PHONE: 952.946.4694

SITE ACQUISITION:

KE CONSULTING, LLC 3101 GRANDVIEW BLVD CONTACT: KIM A. EGAN PHONE: 608.516.0233

LESSOR:

METRO TRANSIT 560 SIXTH AVENUE NORTH MINNEAPOLIS, MN 55411 PHONE: 612.373.3333

RE ENGINEER:

VERIZON WIRELESS 10801 BUSH LAKE RD BLOOMINGTON, MN 55438 CONTACT: JOHN MULLINS PHONE: 612.791,1710

ENGINEERING COMPANY:

2101 HIGHWAY 13 W BURNSVILLE, MN 55337 CONTACT: OTTO DINGFELDER III, P.E. PHONE: 608,644,1449

EDGE CONSULTING ENGINEERS, INC.

ENGINEER OF RECORD

SHEET INDEX

SHEET TITLE

TITLE SHEET & PROJECT DATA

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GENERAL SPECIFICATIONS

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ANTENNA DETAILS

EQUIPMENT DETAILS

STRUCTURAL NOTES *

STRUCTURAL DETAILS

GROUNDING PLAN UTILITY DETAILS

GROUNDING DETAILS

UTILITY PLAN

UTILITY DETAILS

COMPLETED BY OTHERS

SITE ELEVATION

METRO TRANSIT SITE REQUIREMENTS*

METRO TRANSIT SITE REQUIREMENTS*

NO:

G-001

G-002

G-003

G-004

G-005

C-102

T-201

T-502

S-001

S-501

F-101

F-501

EDGE CONSULTING ENGINEERS, INC. CONTACT: OTTO DINGFELDER III (PE # 49720 (MN)) PHONE: 608,644,1449

PEVIEWED AND APPROVED BY STRUCTURAL ENGINEER

11"x17" PLOT WILL BE HALF SCALE

UNLESS OTHERWISE NOTED

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.

STRUCTURAL REVIEW

COMPLETED BY: EDGE CONSULTING ENGINEERS, INC.

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

- 2012 INTERNATIONAL BUILDING CODE

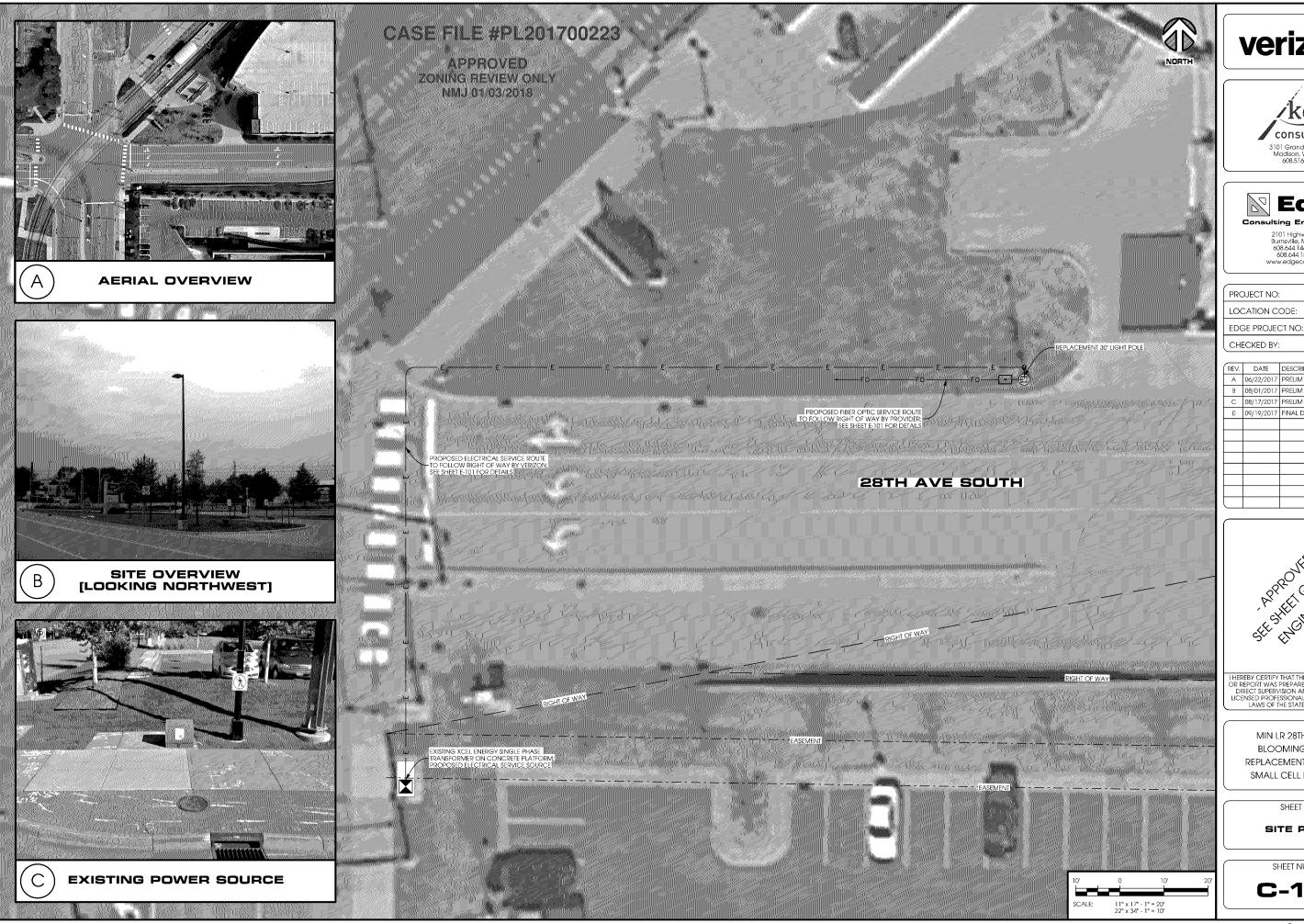
- TIA/EIA-222-G OR LATEST EDITION

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

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

LOCATION SCAN



verizon√



3101 Grandview Blvd Madison, WI 53713 608.516.0233



2101 Highway 13 W Burnsville, MN 55337 608.644.1449 voice 608.644.1549 fax www.edgeconsult.com

PROJECT NO: 20161462527 LOCATION CODE: 425930

14967

CHECKED BY: OGD

ı	REV.	DATE	DESCRIPTION	INT.
	Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
	В	08/01/2017	PRELIM SMALL CELL DWGS	TTB
	С	08/17/2017	PRELIM SMALL CELL DWGS	πв
	0	09/19/2017	FINAL DWGS	DGS

· Para Arthur California I.

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.

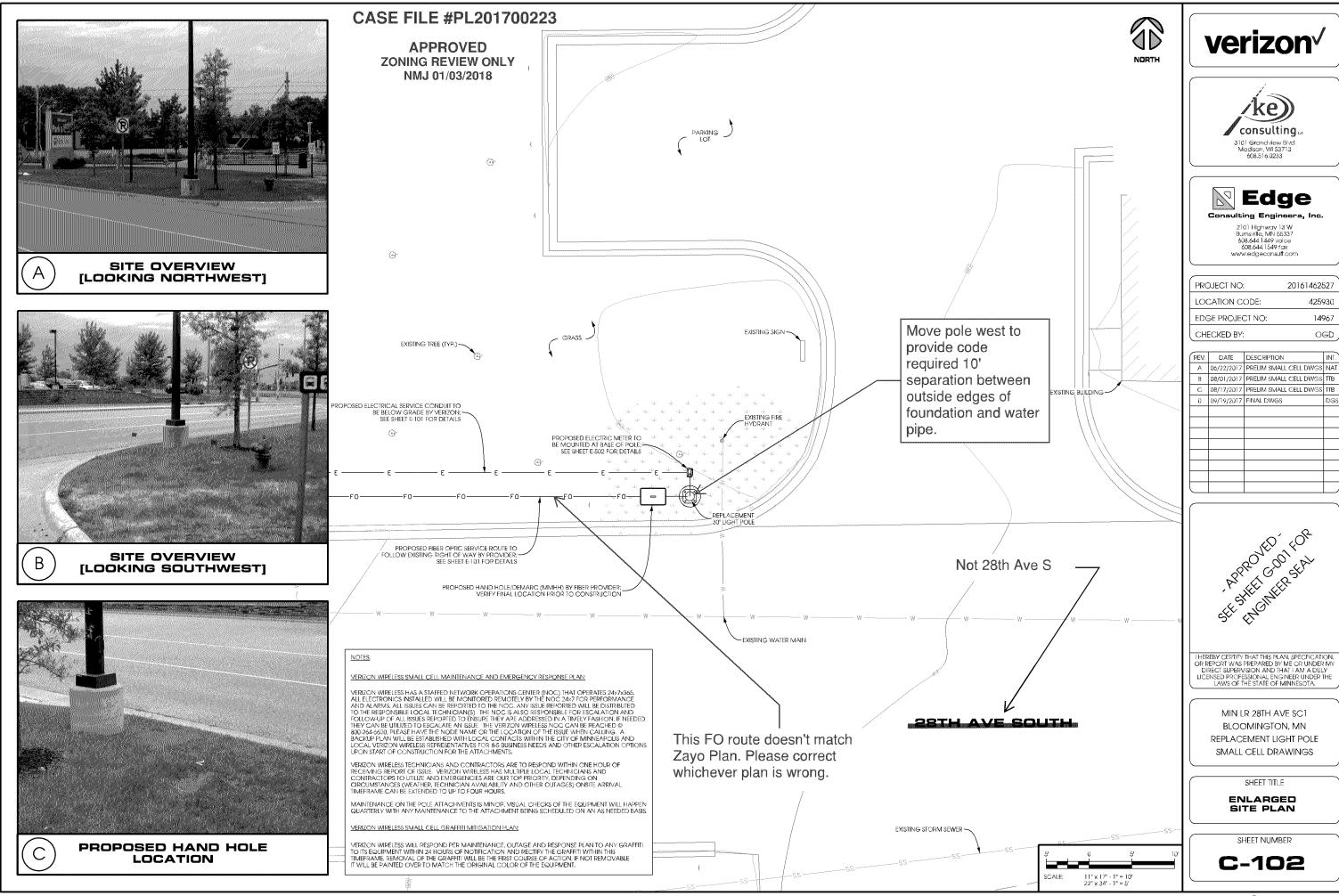
MIN LR 28TH AVE SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

SITE PLAN

SHEET NUMBER

C-101



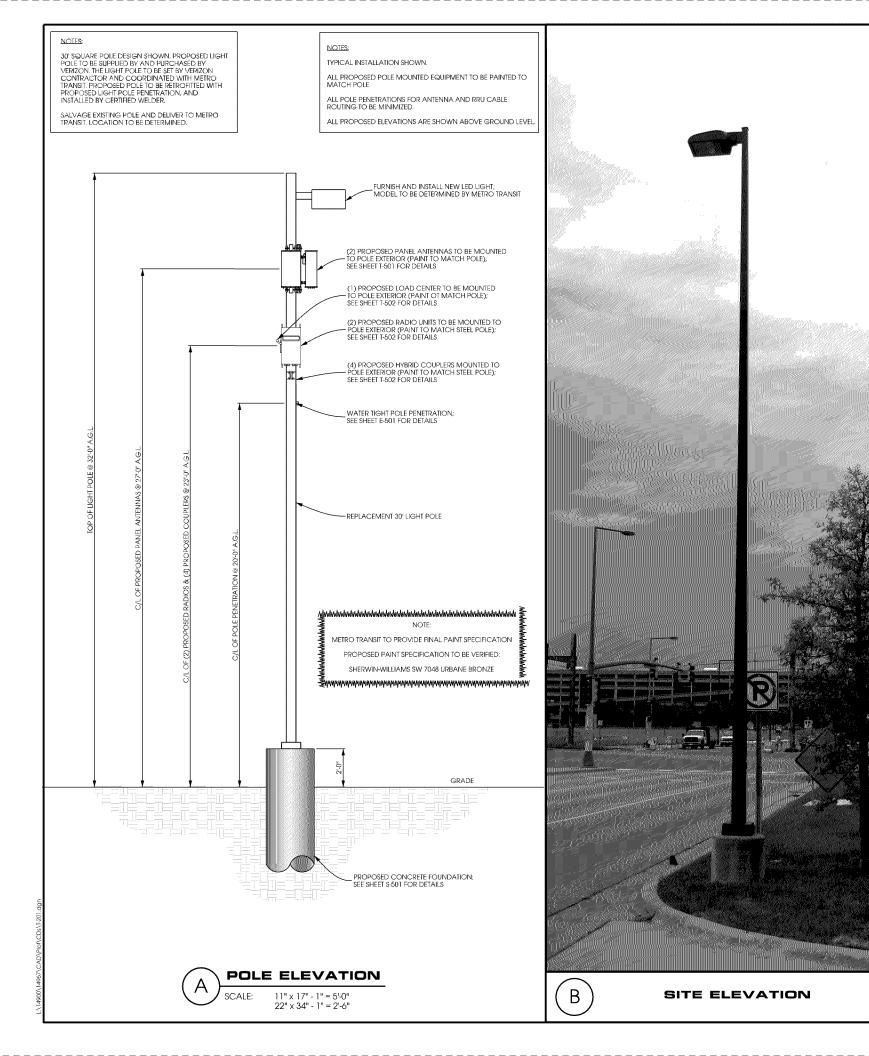
C EDGE CONSULTING ENGINEERS, INC

20161462527

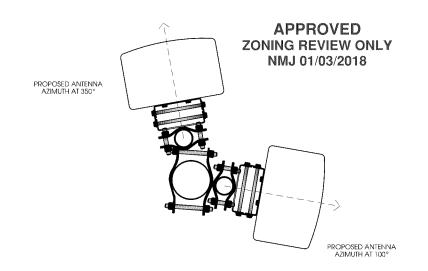
425930

14967

OGD









ANTENNAS					
QUANTITY	MAKE	MODEL	CENTERLINE	AZIMUTH	
1	COMMSCOPE	HBXX-6513DS-A2M	27'	100°	
1	COMMSCOPE	HBXX-6513DS-A2M	27'	350°	

EQUIPMENT			
QUANTITY TYPE		MAKE	MODEL
1	RRU	ERICSSON	RRUS32 B66
1	RRU	ERICSSON	RRUS32 B2
4	COUPLER	CLEARLINK	HC3/698-2.7K/MS/4310

QUANTITY	TYPE	MAKE	MODEL	DIAMETER
16	JUMPER	COMMSCOPE	LFD4-50	1/2"









2101 Highway 13 W Burnsville, MN 55337 608.644.1449 voice 608.644.1549 fax www.edgeconsult.com

PROJECT NO: LOCATION CODE: EDGE PROJECT NO: CHECKED BY:			201614625	527
LOC	CATION C	ODE:	4259	30
EDG	SE PROJE	149	967	
CHE	CKED BY:	:	00	ЭD ј
•				
REV.	DATE		INT.	

REV.	DATE	DESCRIPTION	INT.
Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
В	08/01/2017	PRELIM SMALL CELL DWGS	πв
С	08/17/2017	PRELIM SMALL CELL DWGS	ITB
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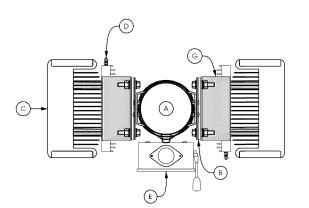
MIN LR 28TH AVE SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

SITE ELEVATION

SHEET NUMBER





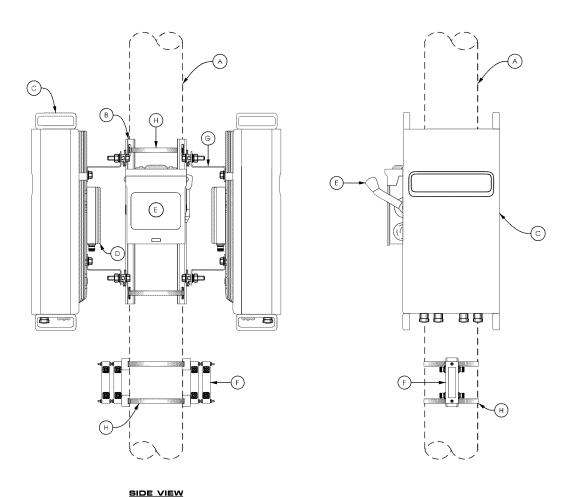
TOP VIEW

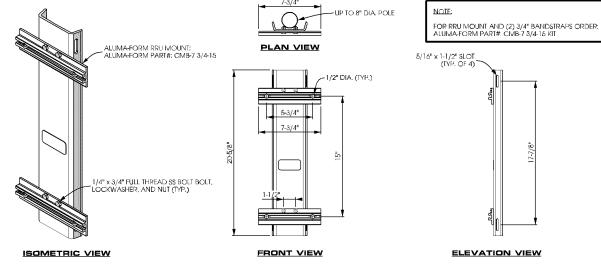
PAINT ALL ANTENNAS, OUTDOOR EQUIPMENT, CABLING, AND MOUNTING HARDWARE TO MATCH THE POLE

KEYED NOTES:

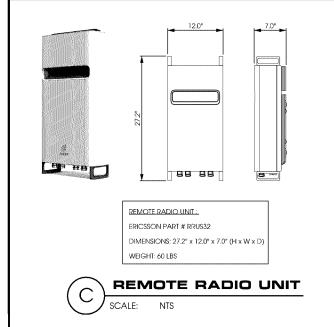
- UP TO 8" DIA. POLE
- REMOTE RADIO UNIT MOUNT (TYP. OF 2); SEE DETAIL B THIS SHEET
- REMOTE RADIO UNIT (TYP. OF 2); SEE DETAIL C THIS SHEET
- POWER SUPPLY UNIT SECURED TO BACK OF REMOTE RADIO UNIT (TYP. OF 2); SEE DETAIL D THIS SHEET
- LOAD CENTER SECURED WITH HEAVY DUTY STAINLESS STEEL BAND STRAP; SEE DETAIL E THIS SHEET
- DIPLEXER SECURED WITH HEAVY DUTY STAINLESS STEEL BAND STRAP (TYP. OF 2); SEE DETAIL F THIS SHEET
- ANGLE ADAPTER MOUNTED TO BACK OF REMOTE RADIO UNIT PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- HEAVY DUTY STAINLESS STEEL BAND STRAP (TYP.)

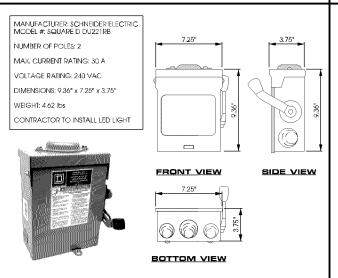
APPROVED **ZONING REVIEW ONLY** NMJ 01/03/2018



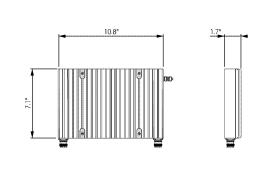






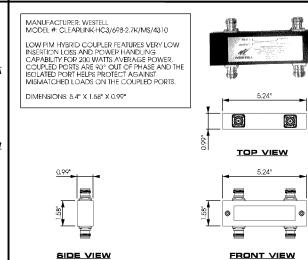


LOAD CENTER



POWER SUPPY UNIT: ERICSSON PART #: PSU AC-08 DIMENSIONS: 10.8" x 7.1" x 1.9" (H x W x D) WEIGHT: 11.5 LBS





DIPLEXER







2101 Highway 13 W Burnsville, MN 55337 608.644.1449 voice 608.644.1549 fax www.edgeconsult.com

PROJECT NO: 20161462527 LOCATION CODE: 425930 EDGE PROJECT NO: 14967 CHECKED BY: OGD

REV.	DATE	DESCRIPTION	INT.
Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
В	08/01/2017	PRELIM SMALL CELL DWGS	πв
С	08/17/2017	PRELIM SMALL CELL DWGS	TTB
0	09/19/2017	FINAL DWGS	DGS
$\overline{}$			



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MIN LR 28TH AVE SC1 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMBER

T-502

Verizon

SITE NAME:

MIN LR 28TH AVE SC2

SITE NUMBER:

20161462529

LOCATION CODE:

425932

SITE TYPE:

LOCATION MAP

SMALL CELL

INSTALLATION TYPE: REPLACEMENT 30' LIGHT POLE

verizon





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ı	PROJECT NO:	20161462529
┨	LOCATION CODE:	425932
ı	EDGE PROJECT NO:	15116
┪	CHECKED BY:	OGD

REV.	DATE	DESCRIPTION	INT.
Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
В	08/01/2017	PRELIM SMALL CELL DWGS	ΠВ
С	08/17/2017	PRELIM SMALL CELL DWGS	TTB
0	09/19/2017	FINAL DWGS	DGS

		,,,	



MIN LR 28TH AVE SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

TITLE SHEET & PROJECT DATA

SHEET NUMBER

G-001

SITE INFORMATION AREA MAP APPROXIMATE ADDRESS: 30TH AVENUE SOUTH AND LINDAU LANE BLOOMINGTON, MINNESOTA 55425 HENNEPIN COUNTY SITE COORDINATES; LAT: 44°-51'-22,69"N LONG: 93°-13'-48.51"W GROUND ELEVATION: 817.0' AMSL (PER 1A CERTIFICATE) POLE HEIGHT: 30'-0" T.O.C. MAXIMUM APPURTENANCE HEIGHT: 30'-0" A.G.L.

INSTALL (1) REPLACEMENT 30-FT STEEL LIGHT POLE AND ASSOCIATED CONCRETE

PROJECT DESCRIPTION/SOW

INSTALLATION OF PANEL ANTENNAS

INSTALLATION OF ERICSSON RRU'S AND POWER CONVERTERS

INSTALLATION OF LOAD CENTER

INSTALLATION OF HYBRID COUPLERS

INSTALLATION OF HAND HOLE FOR FIBER NEAR POLE BASE BY PROVIDER

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE

INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND ROW BELOW

INSTALLATION OF GROUND RODS AROUND POLE FOUNDATION

INSTALLATION OF CONDUIT FOR NEW ELECTRIC SERVICE BY VERIZON

ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

PROJECT DIRECTORY

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

SITE ACQUISITION:

KE CONSULTING, LLC 3101 GRANDVIEW BLVD MADISON, WI 53713 CONTACT: KIM A. FGAN PHONE: 608.516.0233

LESSOR:

LESSEE:

METRO TRANSIT 560 SIXTH AVENUE NORTH MINNEAPOLIS, MN 55411 PHONE: 612.373.3333

VERIZON WIRELESS BLOOMINGTON, MN 55438 CONTACT: JOHN MULLINS

BURNSVILLE, MN 55337 CONTACT; OTTO DINGFELDER III, P.E.

ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC.

STRUCTURAL REVIEW

CONTACT: OTTO DINGFELDER III (PE # 49720 (MN)) PHONE: 608,644,1449

** DEVICUED AND ADDROVED BY STRUCTURAL ENGINEER

11"x17" PLOT WILL BE HALF SCALE

UNLESS OTHERWISE NOTED

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

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SHEET TITLE

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METRO TRANSIT SITE REQUIREMENTS*

METRO TRANSIT SITE REQUIREMENTS*

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GENERAL SPECIFICATIONS

ENLARGED SITE PLAN

SITE ELEVATION ANTENNA DETAILS

UTILITY PLAN

FOURMENT DETAILS

STRUCTURAL NOTES **

STRUCTURAL DETAILS

GROUNDING PLAN

UTILITY DETAILS

UTILITY DETAILS GROUNDING DETAILS

COMPLETED BY OTHERS

SITE PLAN

NO:

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G-002

G-003

G-004

G-005

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C-102

7-201

1-502

S-001

S-501

E-101

E-102

E-501

COMPLETED BY: EDGE CONSULTING ENGINEERS, INC.

EDGE CONSULTING ENGINEERS, INC.

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

APPLICABLE CODES

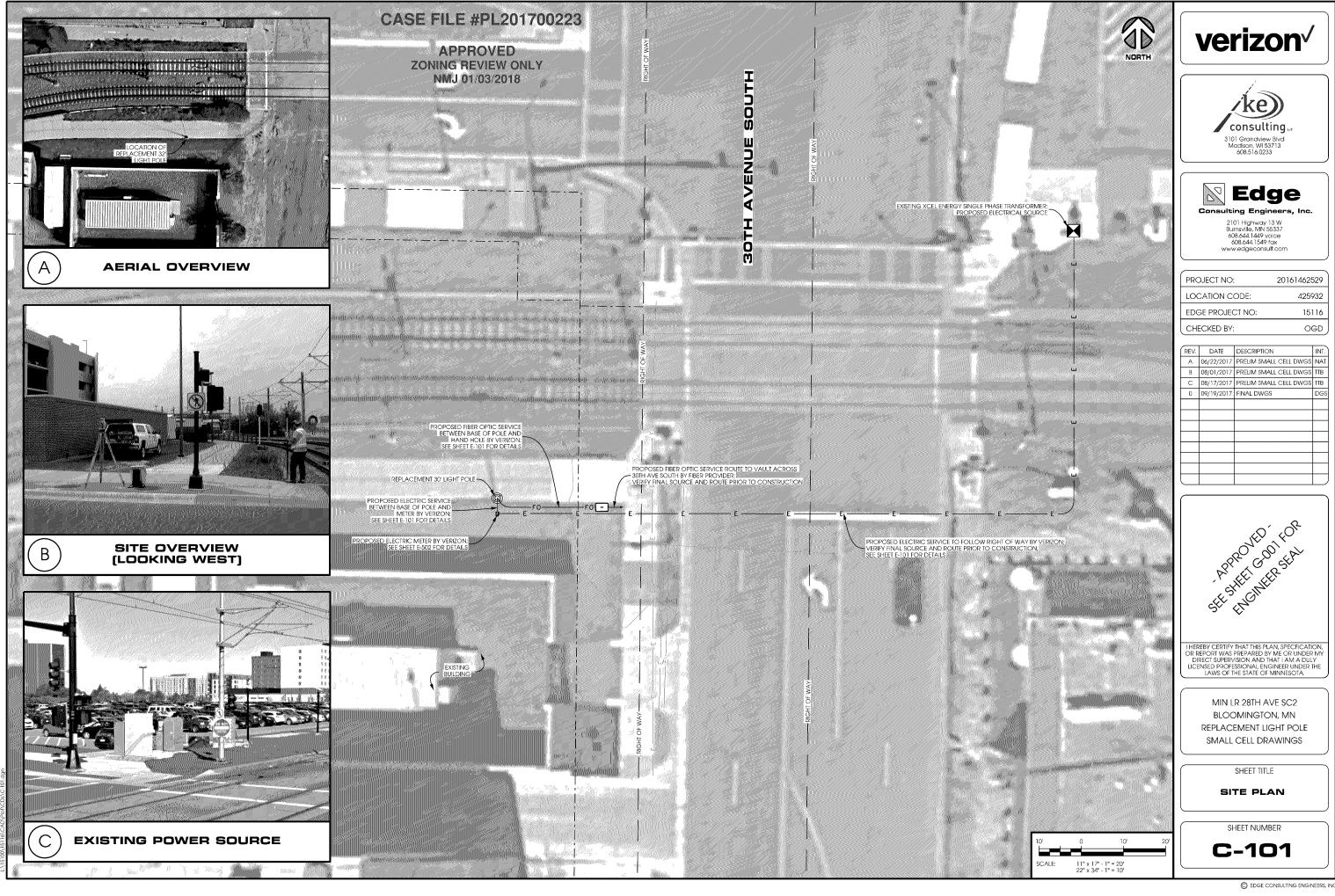
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

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

LOCATION SCAN

- 2012 INTERNATIONAL BUILDING CODE

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





A SITE OVERVIEW [LOOKING WEST]

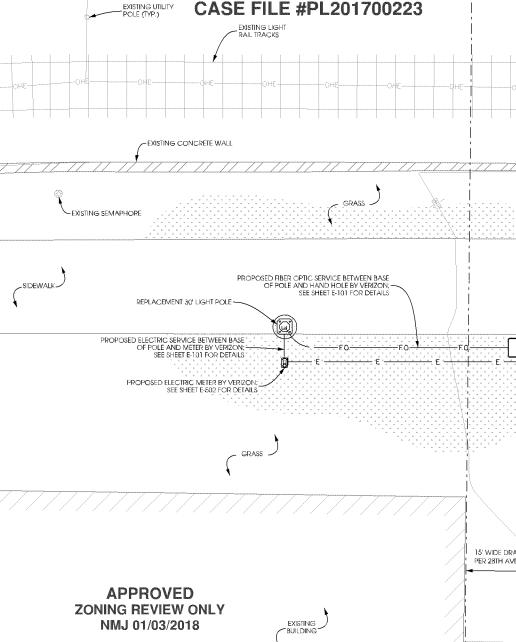


SITE OVERVIEW (LOOKING EAST)

В



PROPOSED HAND HOLE LOCATION



NOTES

VERIZON WIRELESS SMALL CELL MAINTENANCE AND EMERGENCY RESPONSE PLAN:

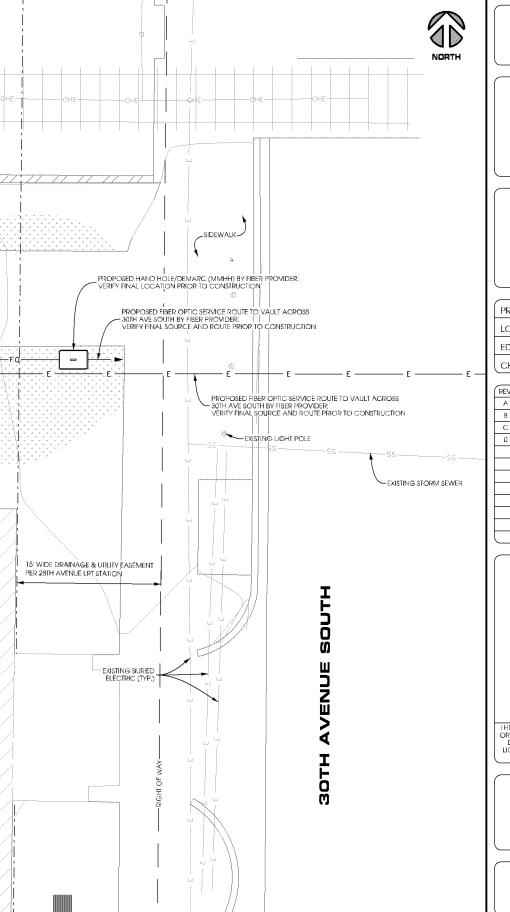
VERIZON WIRELESS HAS A STAFFED NETWORK OPERATIONS CENTER (NOC) THAT OPERATES 24x7x365. ALL ELECTRONICS INSTALLED WILL BE MONITORED REMOTELY BY THE NOC 24x7 FOR PERFORMANCE AND ALARMS, ALL ISSUES CAN BE REPORTED TO THE NOC, ANY ISSUE REPORTED WILL BE DISTRIBUTED TO THE PREPONSIBLE LOCAL TECHNICAN(S). THE NOC IS ALSO RESPONSIBLE FOR ESCALATION AND FOLLOW-UP OF ALL ISSUES REPORTED TO ENSURE THEY ARE ADDRESSED IN A TIMELY FASHION, IF NEEDED THEY CAN BE UTILIZED TO ESCALATE AN ISSUE. THE VERIZON WIRELESS NOC CAN BE REACHED @ 800-264-6620, PLEASE HAVE THE NODE NAME OR THE LOCATION OF THE ISSUE WHEN CALLING, A BACKUP PLAN WILL BE ESTABLISHED WITH LOCAL CONTACTS WITHIN THE CITY OF MINNEAPOLIS AND LOCAL VERIZON WIRELESS REPRESENTATIVES FOR 8-5 BUSINESS NEEDS AND OTHER ESCALATION OPTIONS UPON START OF CONSTRUCTION FOR THE ATTACHMENTS.

VERIZON WIRELESS TECHNICIANS AND CONTRACTORS ARE TO RESPOND WITHIN ONE HOUR OF RECEIVING REPORT OF ISSUE: VERIZON WIRELESS HAS MULTIPLE LOCAL TECHNICIANS AND CONTRACTORS TO UTILIZE AND EMERGENCIES ARE OUR TOP PRIORITY, DEPENDING ON CIRCUMSTANCES (WEATHER, TECHNICIAN AVAILABILITY AND OTHER OUTAGES) ONSITE ARRIVAL TIMEFRAME CAN BE EXTENDED TO UP TO FOUR HOURS.

MAINTENANCE ON THE POLE ATTACHMENTS IS MINOR, VISUAL CHECKS OF THE EQUIPMENT WILL HAPPEN QUARTERLY WITH ANY MAINTENANCE TO THE ATTACHMENT BEING SCHEDULED ON AN AS NEEDED BASIS.

VERIZON WIRELESS SMALL CELL GRAFFITI MITIGATION PLAN:

VERIZON WIRELESS WILL RESPOND PER MAINTENANCE, OUTAGE AND RESPONSE PLAN TO ANY GRAFFITI TO TIS EQUIPMENT WITHIN 24 HOURS OF NOTIFICATION AND RECTIFY THE GRAFFITI WITHIN THIS TIMEFRAME, REMOVAL OF THE GRAFFITI WILL BE THE FIRST COURSE OF ACTION, IF NOT REMOVABLE IT WILL BE PAINTED OVER TO MATCH THE ORIGINAL COLOR OF THE EQUIPMENT.



verizon√



608.516.0233



2101 Highway 13 W Burnsville, MN 55337 608.644.1449 voice 608.644.1549 fax www.edgeconsulf.com

| PROJECT NO: 20161462529 | LOCATION CODE: 425932 | EDGE PROJECT NO: 15116 | CHECKED BY: OGD

ARROUD TOOR SEAL SEE THE SEE THE SEE SEE

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 LR 28TH AVE SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

> > SHEET TITLE

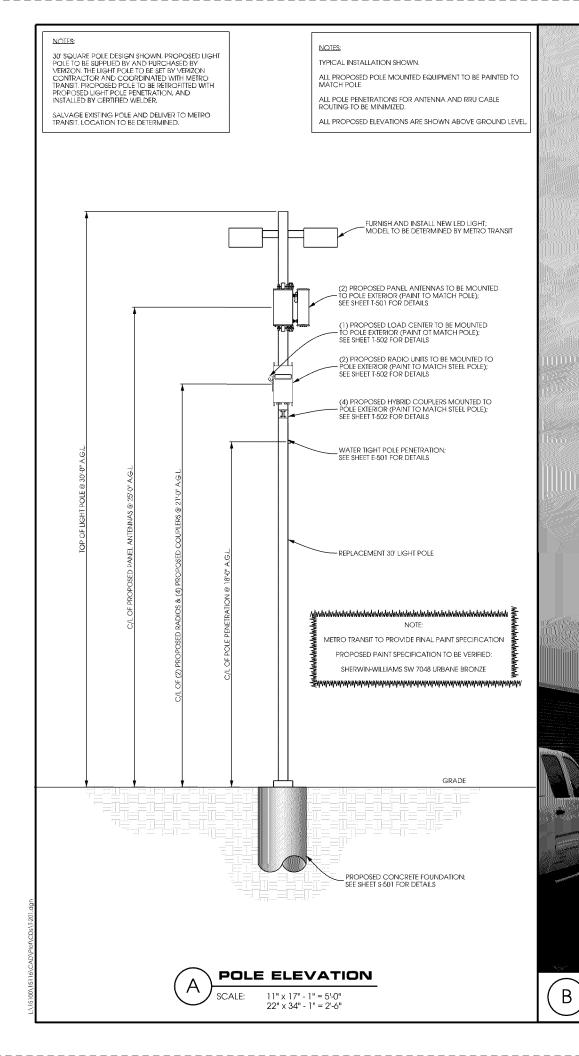
ENLARGED SITE PLAN

SHEET NUMBER

C-102

11" x 17" - 1" = 10' 22" x 34" - 1" = 5'

SCALE:

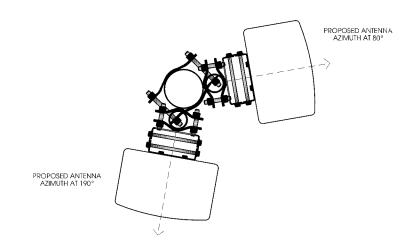




SITE ELEVATION

CASE FILE #PL201700223

APPROVED ZONING REVIEW ONLY NMJ 01/03/2018





ANTENNAS					
QUANTITY	MAKE	MODEL	CENTERLINE	AZIMUTH	
1	СОММЯСОРЕ	HBXX-6513DS-A2M	25'	80°	
1	COMMSCOPE	HBXX-6513DS-A2M	25'	190°	

EQUIPMENT			
QUANTITY	TYPE	MAKE	MODEL
1	RRU	ERICSSON	RRUS32 B66
1	RRU	ERICSSON	RRUS32 B2
4	COUPLER	CLEARLINK	HC3-698-2.7K/MS/4310

CABLING				
QUANTITY	TYPE	MAKE	MODEL	DIAMETER
16	JUMPER	COMMSCOPE	LF D4-50	1/2"









2101 Highway 13 W Burnsville, MN 55337 608.644.1449 Volce 608.644.1549 fax www.edgeconsulf.com

PROJECT NO:	20161462529
LOCATION CODE:	425932
EDGE PROJECT NO:	15116

OGD

CHECKED BY:

REV.	DATE	DESCRIPTION	INT.
Α	06/22/2017	PRELIM SMALL CELL DWGS	NAT
В	08/01/2017	PRELIM SMALL CELL DWGS	πв
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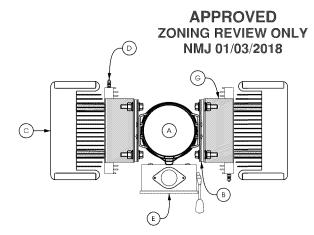
> MIN LR 28TH AVE SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

> > SHEET TITLE

SITE ELEVATION

SHEET NUMBER





TOP VIEW

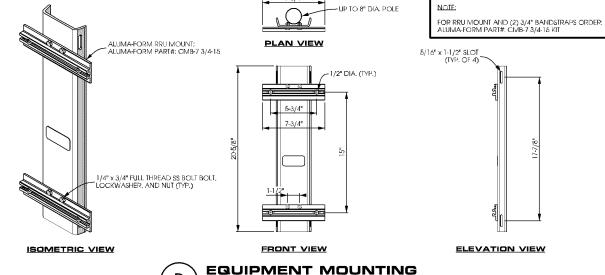
NOTE:

PAINT ALL ANTENNAS, OUTDOOR EQUIPMENT, CABLING, AND MOUNTING HARDWARE TO MATCH THE POLE

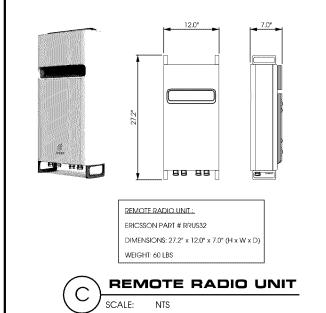
KEYED NOTES:

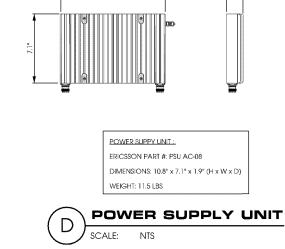
- A. UP TO 8" DIA. POLE
- B. REMOTE RADIO UNIT MOUNT (TYP. OF 2); SEE DETAIL B THIS SHEET
- C. REMOTE RADIO UNIT (TYP. OF 2); SEE DETAIL C THIS SHEET
- D. POWER SUPPLY UNIT SECURED TO BACK OF REMOTE RADIO UNIT (TVP. OF 2);
 SEE DETAIL D THIS SHEET
- SEE DETAIL D'THIS SHEÉT

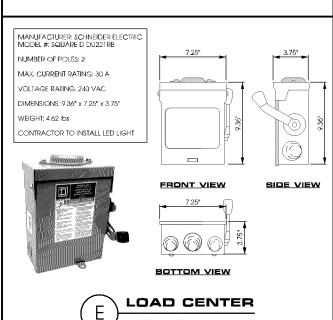
 E. LOAD CENTER SECURED WITH HEAVY DUTY STAINLESS
 SIEEL BAND SIRAP;
 SEE DETAIL E THIS SHEET
- F. DIPLEXER SECURED WITH HEAVY DUTY STAINLESS STEEL BAND STRAP (TYP. OF 2); SEE DETAIL F THIS SHEET
- G. ANGLE ADAPTER MOUNTED TO BACK OF REMOTE RADIO UNIT PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- H. HEAVY DUTY STAINLESS STEEL BAND STRAP (TYP.)

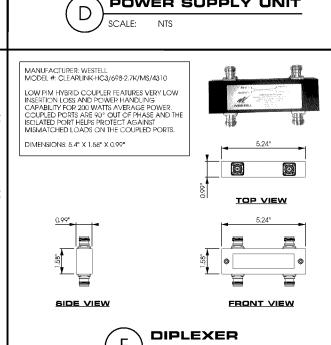


















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20161462529
425932
15116

OGD

CHECKED BY:

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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.

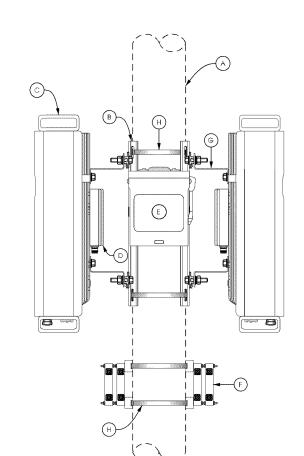
MIN LR 28TH AVE SC2 BLOOMINGTON, MN REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMBER





SIDE VIEW

