Verizon

VERIZON PROJECT NUMBER: 16968208

VERIZON SITE NAME:

SITE TYPE:

TOWER OWNER:

CARRIER/APPLICANT:

ELECTRIC PROVIDER:

TELCO PROVIDER:

A&E FIRM:

CROWN CASTLE

CONTACTS:

USA INC. DISTRIC

TOWER HEIGHT:

KCYC LEES SUMMIT DT MONOPOLE 180'-0"

BUSINESS UNIT #: 877803

207 SE DOUGLAS SITE ADDRESS: LEE'S SUMMIT, MO 64063

JACKSON COUNTY:

MO - CITY OF LEE'S SUMMIT 2015 **JURISDICTION:**

VERIZON INITIAL BUILD

APPROVALS

SITE INFORMATION CROWN CASTLE USA INC. KCYC LEES SUMMIT DT SITE NAME: SITE ADDRESS: 207 SE DOUGLAS LEE'S SUMMIT, MO 64063 COUNTY: JACKSON 61-340-20-06-00-0-00-000 MAP/PARCEL #: AREA OF CONSTRUCTION: **EXISTING** LATITUDE: 38.913842 / 38° 54' 49.83" N LONGITUDE: -94.376328 / -94° 22' 34.78" W LAT/LONG TYPE: GROUND ELEVATION: 1006.96' **CURRENT ZONING: JURISDICTION:** MO - CITY OF LEE'S SUMMIT 2015 OCCUPANCY CLASSIFICATION: U TYPE OF CONSTRUCTION: A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR **HUMAN HABITATION** PROPERTY OWNER: CITY OF LEES SUMMIT PO BOX 1600 LEES SUMMIT, MO 64063-7600

CROWN CASTLE

2000 CORPORATE DRIVE

CANONSBURG, PA 15317

180 WASHINGTON VALLEY ROAD

VERIZON WIRELESS

BEDMINSTER, NJ 07921

EVERGY

AT&T

PROJECT TEAM

1200 MACARTHUR BLVD, SUITE 200

EVE ZWEIG - PROJECT MANAGER

jonathan.macconkey@crowncastle.com"V

JONATHAN MACCONKEY - CONSTRUCTION MANAGER

TRYLON

1825 W. WALNUT HILL

IRVING, TEXAS 75038

eve.zweig@crowncastle.com

MAHWAH, NJ 07430

LANE, SUITE 120

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-0	SURVEY - LEE'S SUMMIT FIRE STATION
C-1	GEOLINE SURVEYING REPORT
C-1.1	REPORT - SITE PHOTOGRAPHS
C-2	OVERALL SITE PLAN
C-2.1	SITE PLAN
C-3	SOUTHEAST EXISTING & NEW ELEVATION
C-4	ANTENNA PLANS & CABLE SCHEDULE
C-5	EQUIPMENT & MOUNTING SPECIFICATIONS
C-6	ANTENNA MOUNT SPECIFICATIONS
C-7	ANTENNA MOUNT SPECIFICATIONS
C-8 - C-9	EQUIPMENT SPECIFICATIONS
C-10	EQUIPMENT ELEVATION VIEWS
C-11	EQUIPMENT LAYOUT & DETAILS
C-12	ATTACHED RFDS
C-13	PLUMBING DIAGRAM
E-1	OVERALL CONDUIT LAYOUT
E-2	EQUIPMENT CONDUIT LAYOUT
E-3	ELECTRICAL DETAILS
G-1	GROUNDING PLAN
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
ATTACHED	TOWER SURVEY & AS-BUILT SURVEY

DRAWING INDEX

APPROVAL	SIGNATURE	DATE
SITE ACQUISITION _		
CONSTRUCTION _		
RADIO _	_	
MICROWAVE _	_	
TELCO _		
EQUIPMENT _	_	
PROJECT ADMINISTRATOR _	_	
WO ADMINISTRATOR _		
CROWN CASTLE USA INC. SIGN	NATURE BLOCK	
APPROVAL	SIGNATURE	DATE
SITE ACQUISITION _		
PLANNER _		
CONSTRUCTION _		
PROJECT MANAGER _		
UTILITY MANAGER		
LANDLORD _		

LOCATION MAP					
FBC Lee's Summit \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Wilson	Cloud 9 Liquo			
SE Douglas St.	SE 2nd St	Hurd			
	Lea - M	derOne Financial olly Dean Team SE 3rd St			
Smoke Brewing Company Company Third Street So		Red Racks Thrift St			
Downtown	n Lee's	NO SCALE			

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY ROAD, BEDMINSTER, NJ 07921): DEPART AND HEAD TOWARD WASHINGTON VALLEY RD / COUNTY HWY-620, TURN LEFT ONTO WASHINGTON VALLEY RD / COUNTY HWY-620, BEAR RIGHT TOWARD US-202 S / US-206 S / US HIGHWAY 202 206, TURN LEFT ONTO US-202 S / US-206 S / US HIGHWAY 202 206, KEEP LEFT TO STAY ON I-78 W, KEEP STRAIGHT TO GET ONTO I-81 S, KEEP LEFT, HEADING TOWARD PITTSBURGH, KEEP LEFT, HEADING TOWARD WHEELING, AT EXIT 5A, HEAD LEFT ON THE RAMP FOR I-470 WEST TOWARD COLUMBUS / OH, KEEP STRAIGHT TO GET ONTO I-70 W, KEEP RIGHT, HEADING TOWARD SAINT LOUIS, KEEP STRAIGHT, HEADING TOWARD KANSAS CITY, KEEP RIGHT, HEADING TOWARD KANSAS CITY, TURN RIGHT ONTO E LANGSFORD RD, TURN LEFT, ARRIVE AT 207 SE DOUGLAS, LEE'S SUMMIT, MO 64063

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE NGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH

THE WORK OR BE RESPONSIBLE FOR SAME

OWER SCOPE OF WORK:

• INSTALL (9) ANTENNAS

• (36) 10'-0" ŘÉ JUMPERS

- INSTALL (6) RRUS • INSTALL (2) 6x12 HYBRID CABLES
- INSTALL (1) SITE PRO 1 RMQP-4126-HK PLATFORM MOUNT
- (6) HYBRID JUMPERS FOR 4G RADIOS • (3) HYBRID JUMPERS FOR AIR6419
- ÌŃSTALL (3) SIDE BY SIDE MOUNTS • INSTALL (1) OVP
- ROUND SCOPE OF WORK:
 INSTALL (1) 11'-0"x4'-0" EQUIPMENT PAD
- INSTALL (1) EQUIPMENT PLINTH
- INSTALL (1) RF CABINET • INSTALL (1) BATTERY CABINET
- INSTALL (1) ERICSSON 6651 BBU
- INSTALL (1) RACK MOUNTED OVP
- INSTALL (1) GPS ANTENNA
- INSTALL (1) EQUIPMENT H-FRAME • INSTALL (1) ILC CABINET
- INSTALL (1) APPLETON PLUG ON NEW ILC CABINET • INSTALL (1) 200A METER SOCKET W/ DISCONNECT
- INSTALL (2) SERVICE LIGHTS

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

CONTRACTOR PMI REQUIREMENTS

https://pmi.vzwsmart.com PMI ACCESSED AT SMART TOOL VENDOR PROJECT NUMBER VzW LOCATION CODE (PSLC) 716127

*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

APPLICABLE CODES/REFERENCE **DOCUMENTS**

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: CODE TYPE

CODE 2018 IBC BUILDING 2018 IMC **MECHANICAL** 2017 NEC ELECTRICAL

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: TEP DATED: 10/27/2024 RFDS REVISION: 2 DATED: 10/17/2024 ORDER ID: 640178 REVISION: 7

CALL MISSOURI ONE CALL

CALL 3 WORKING DAYS

BEFORE YOU DIG!



JURISDICTIONAL APPROVALINIS

BEDMINSTER, NJ 07921





IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

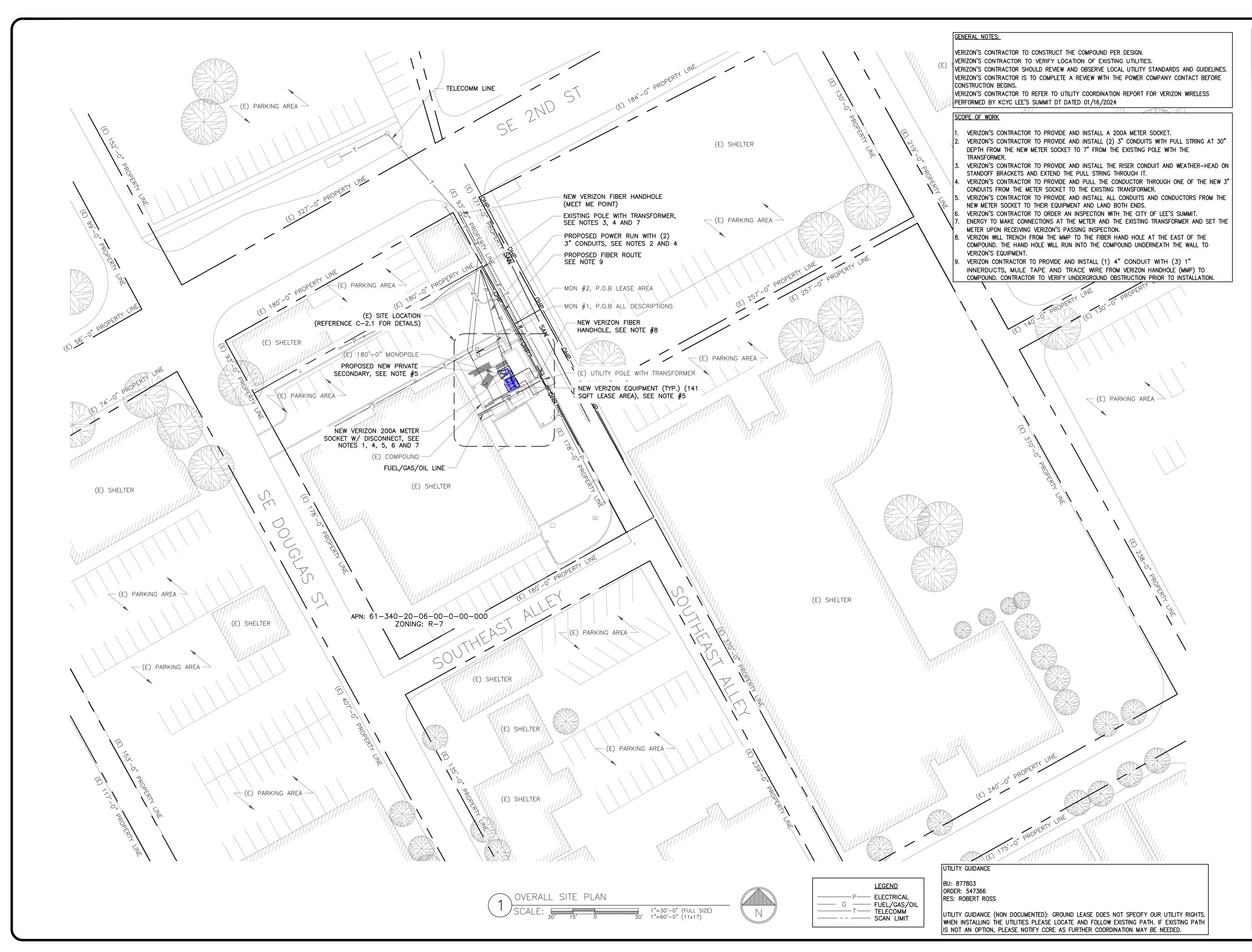
BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063 EXISTING 180'-0" MONOPOLE

		ISSU	E D FOR :	
REV	DATE	DRWN	DESCRIPTION	DES./QA
3	09/18/2023	TFL	FINAL	AMT
4	10/17/2023	RC	FINAL	AMT
5	01/09/2024	TFL	FINAL	AMT
6	01/23/2024	RC	FINAL	AMT
7	03/29/2024	RC	FINAL	AMT
8	04/05/2024	RC	FINAL	AMT
9	04/19/2024	RC	FINAL	AMT
10	07/25/2024	RC	FINAL	AMT
11	08/14/2024	RC	FINAL	AMT
12	09/19/2024	RC	FINAL	AMT
13	10/15/2024	RC	FINAL	AMP
14	12/05/2024	RC	FINAL	AMP



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SHEET NUMBER:



JURISDICTIONAL APPROVS Authors to the services of the services

Verizon

180 WASHINGTON VALLEY ROAD



BEDMINSTER, NJ 07921



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

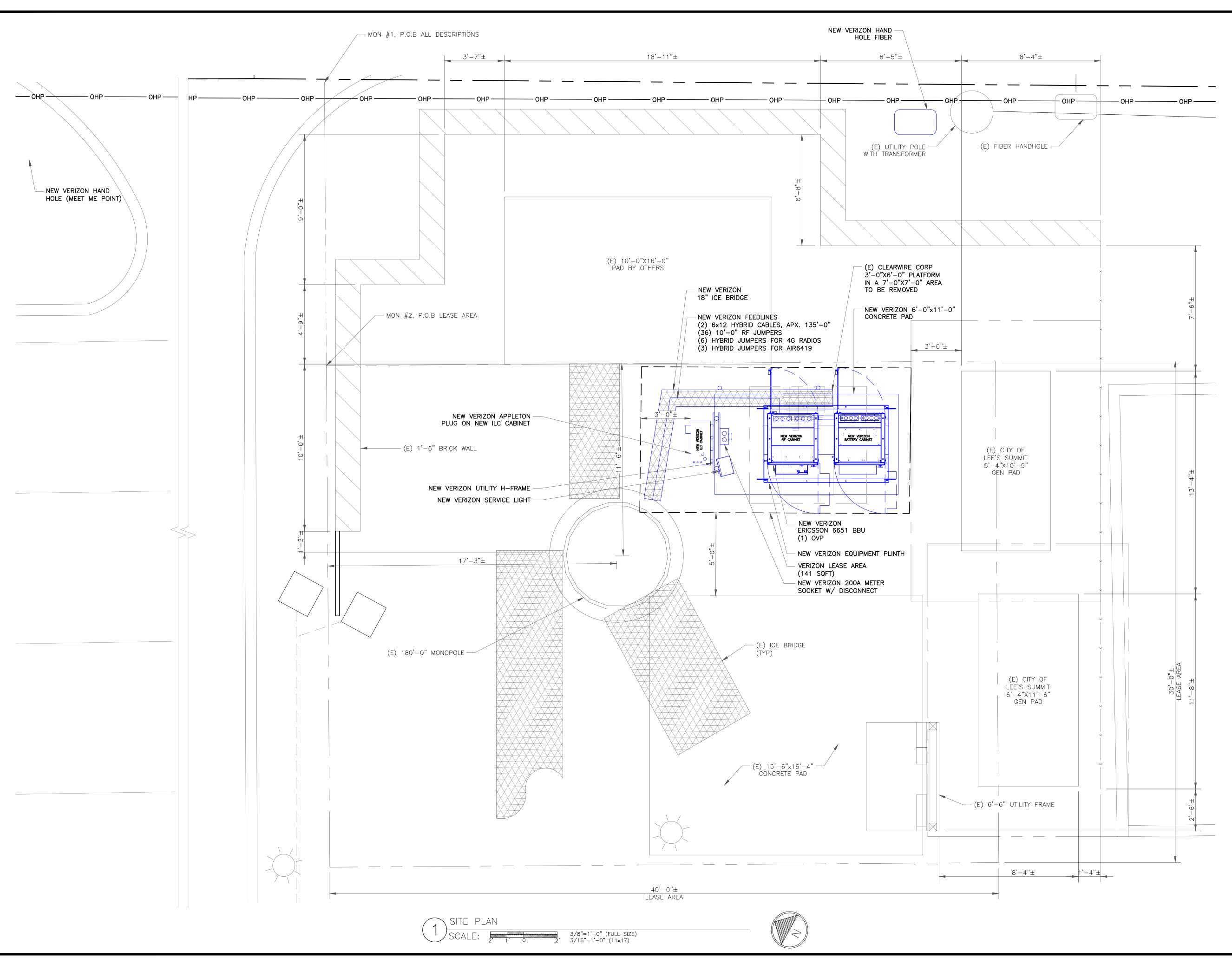
BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063
EXISTING 180'-0" MONOPOLE

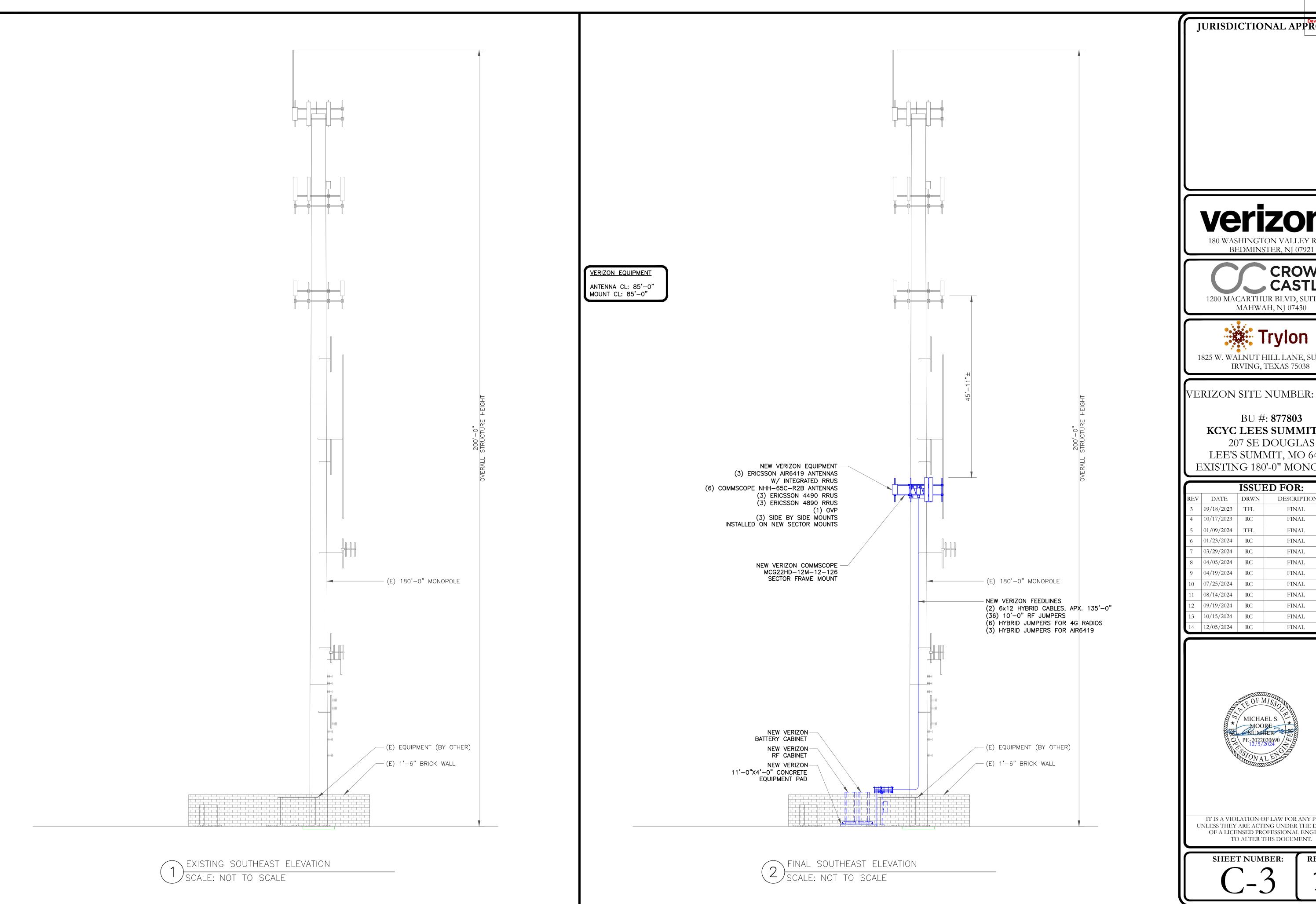
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4	10/17/2023	RC	FINAL	АМТ
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9	04/19/2024	RC	FINAL	AMT
10	07/25/2024	RC	FINAL	AMT
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SHEET NUMBER:





JURISDICTIONAL APPROEV Aumnit, Ms

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

verizon 180 WASHINGTON VALLEY ROAD



1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

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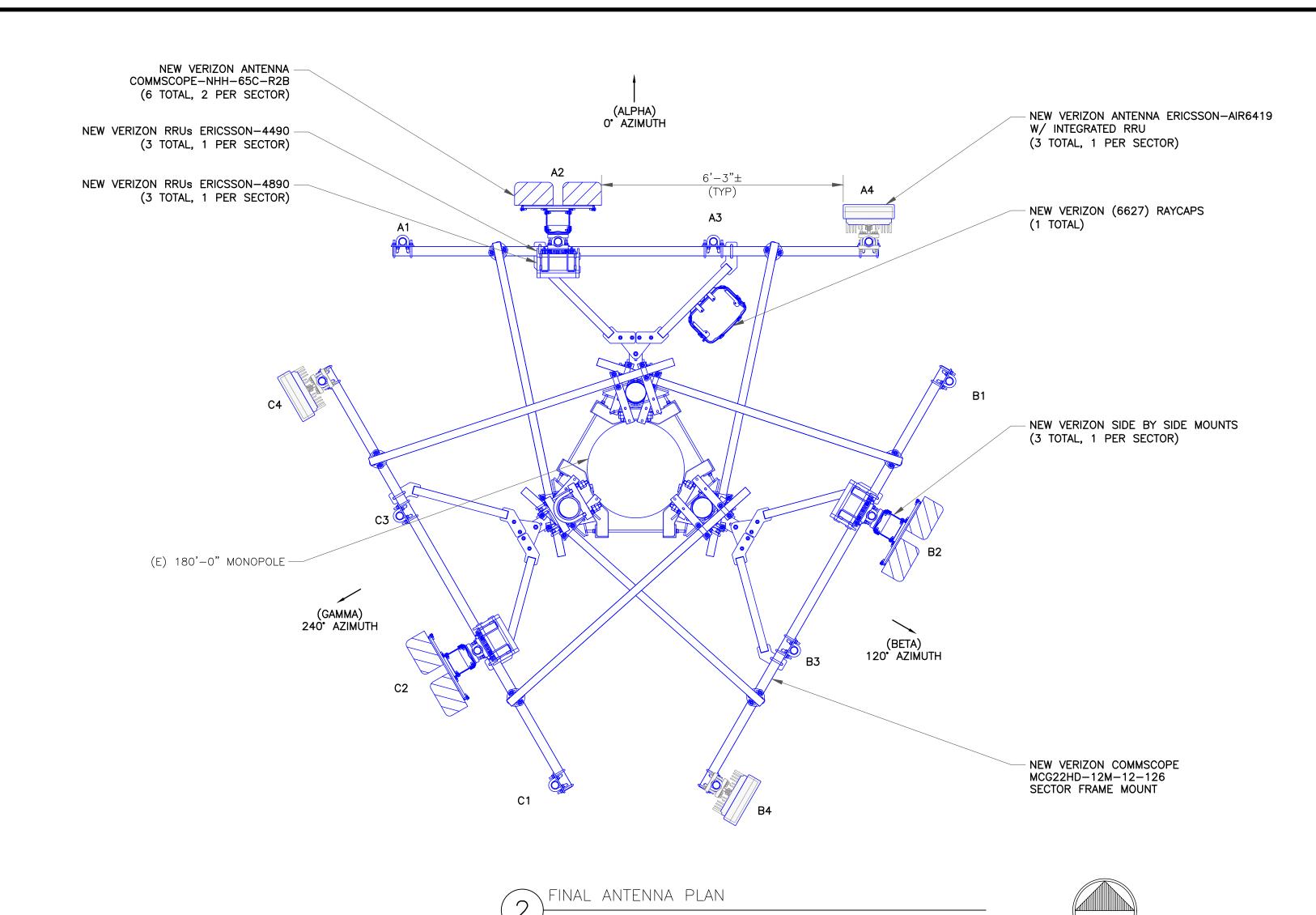


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						ANTENNA SCHEDULE				
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	-	-	-	-	_	_	-	_	_
ALPHA	A2	-	85'-0"	0•	COMMSCOPE	NHH-65C-R2B	0	4/4/4	(1) ERICSSON — RADIO 4490 (1) ERICSSON — RADIO 4890	HYBRID
ALPHA	A3	-	1	-	-	-	_	-	-	-
ALPHA	A4	-	85'-0"	0°	ERICSSON	AIR6419	0	3/3/3	(1) INTEGRATED RRU	-
BETA	B1	_	-	_	_	ī	_	-	Ī	_
ВЕТА	B2	-	85'-0"	120 °	COMMSCOPE	NHH-65C-R2B	0	4/4/4	(1) ERICSSON — RADIO 4490 (1) ERICSSON — RADIO 4890 (1) OVP	HYBRID
BETA	В3	-			_	Ţ	_	ı		_
BETA	B4	-	85'-0"	120°	ERICSSON	AIR6419	0	3/3/3	(1) INTEGRATED RRU	_
GAMMA	C1	-	_	_	-	_	_	_		_
GAMMA	C2	-	85'-0"	240°	COMMSCOPE	NHH-65C-R2B	0	4/4/4	(1) ERICSSON — RADIO 4490 (1) ERICSSON — RADIO 4890	HYBRID (SHARED)
GAMMA	С3	-	_	-	-	Т	_	_	-	-
GAMMA	C4	_	85'-0"	240°	ERICSSON	AIR6419	0	3/3/3	(1) INTEGRATED RRU	_

	CABLE SC	HEDULE		
STATUS	CABLE TYPE	SIZE	QUANTITY	
NEW	HYBRID	6x12	2	
FIN	FINAL CABLE QUANTITY 2			

1) ANTENNA AND CABLE SCHEDULE SCALE: NOT TO SCALE



JURISDICTIONAL APPRO V SAummit, Most 01/22/2025

Verizon

180 WASHINGTON VALLEY ROAD

BEDMINSTER, NJ 07921





IRVING, TEXAS 75038

BU #: **877803 KCYC LEES SUMMIT DT**

VERIZON SITE NUMBER: 16968208

207 SE DOUGLAS LEE'S SUMMIT, MO 64063 EXISTING 180'-0" MONOPOLE

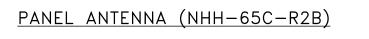
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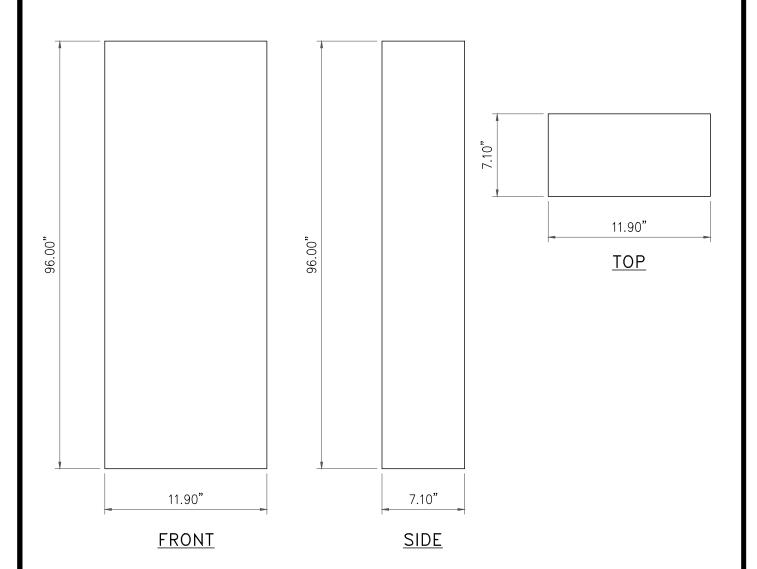
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SHEET NUMBER:

revision: 14

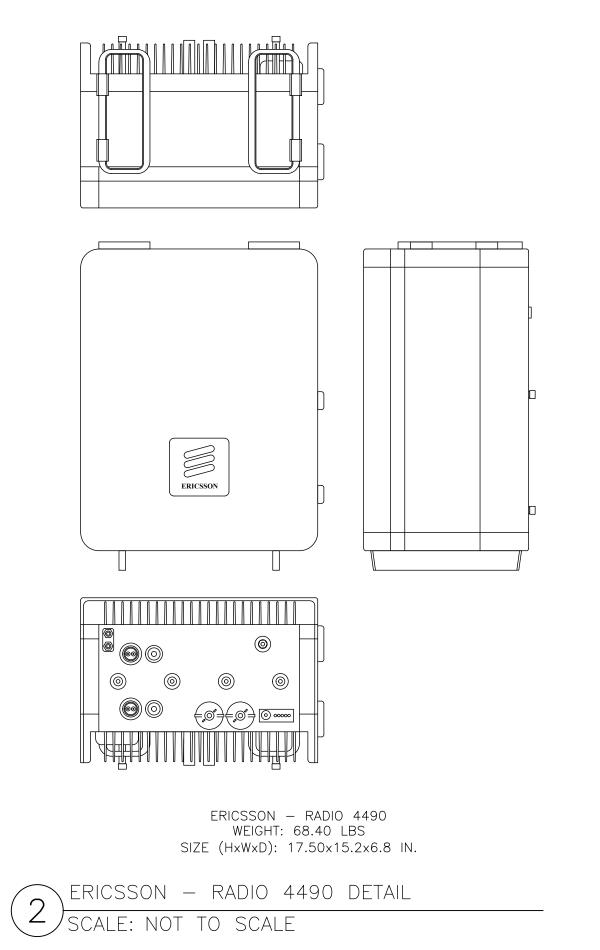


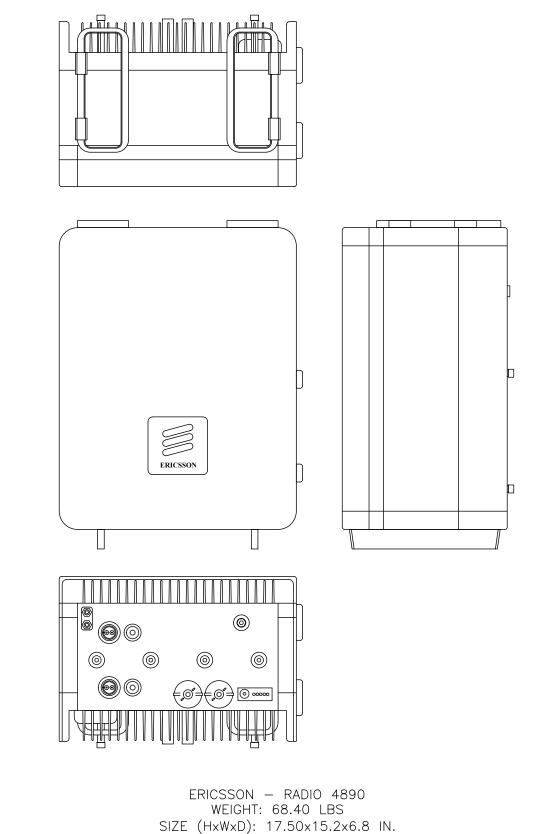
DIMENSIONS, HxWxD: 96.00"x11.90"x7.10" WEIGHT, W/O BRACKETS: 51.60 lbs



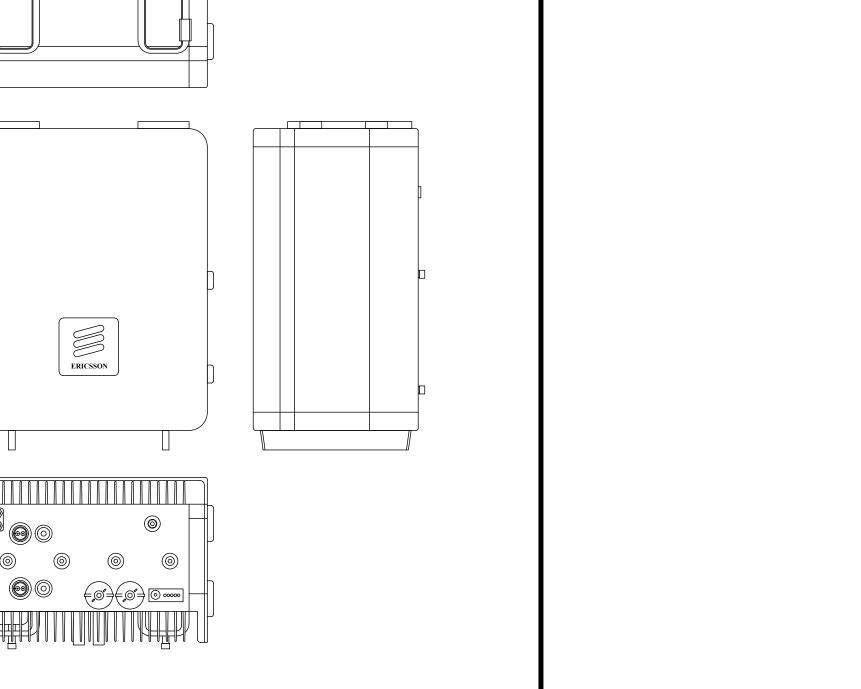
NHH-65C-R2B ANTENNA DETAIL SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE





ERICSSON - RADIO 4890 DETAIL SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

verizon 180 WASHINGTON VALLEY ROAD

JURISDICTIONAL APPROVATIONAL A



BEDMINSTER, NJ 07921

1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

ISSUED FOR: REV DATE DRWN DESCRIPTION AMT09/18/2023 TFL FINAL 4 10/17/2023 RC FINAL 01/09/2024 TFL AMT FINAL 01/23/2024 RC FINAL AMT 03/29/2024 RC FINAL AMT 04/05/2024 RC FINAL AMT 04/19/2024 RC FINAL AMT07/25/2024 RC FINAL AMT 08/14/2024 RC FINAL AMT 09/19/2024 RC FINAL AMT 10/15/2024 RC FINAL AMP12/05/2024 RC FINAL AMP



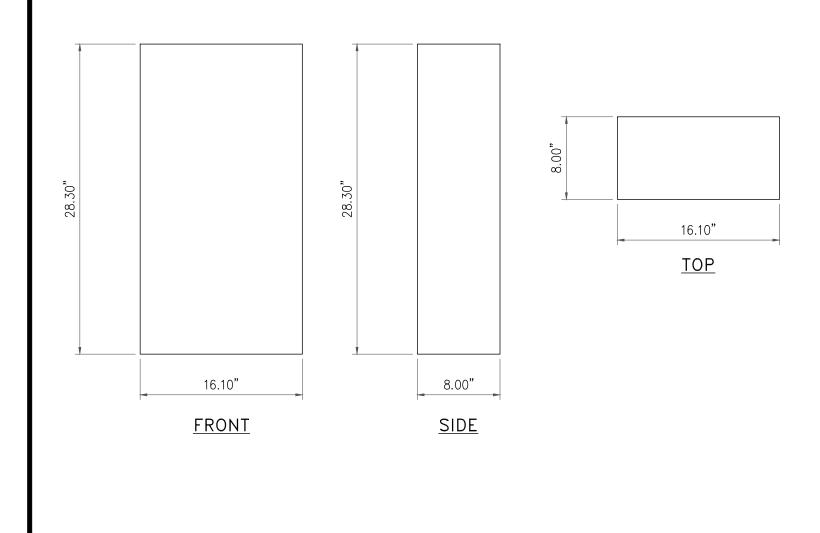
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SHEET NUMBER:

REVISION:

PANEL ANTENNA (AIR 6419)

DIMENSIONS, HxWxD: 28.30"x16.10"x8.00" WEIGHT, W/O BRACKETS: 71.0 lbs

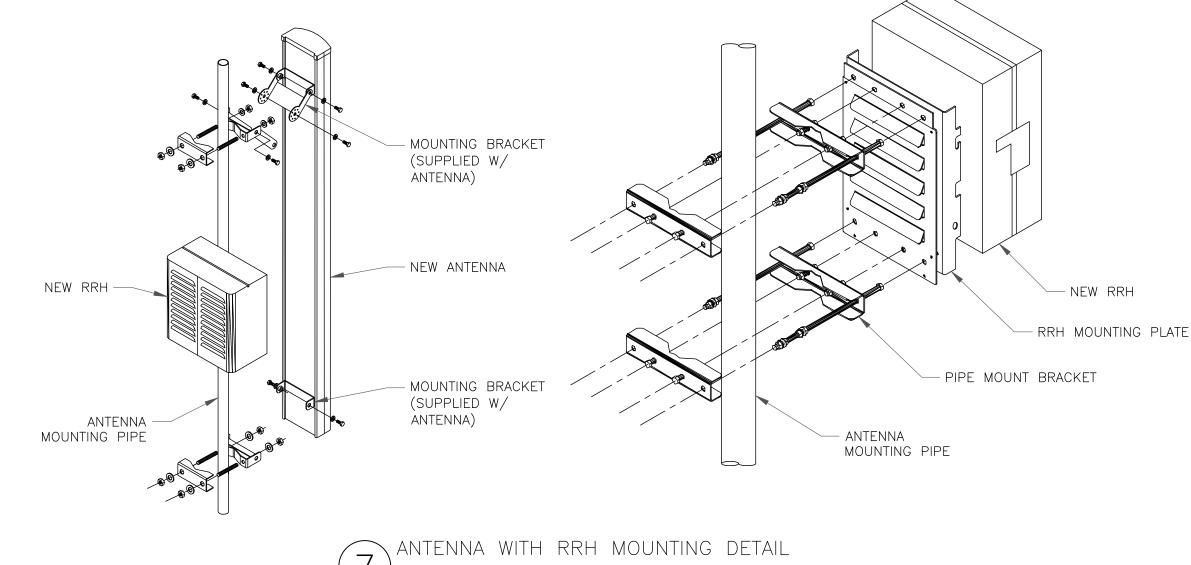


AIR 6419 ANTENNA DETAIL SCALE: NOT TO SCALE

INSTALLER NOTES:

. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE

MANUFACTURER'S PACKAGING. 2. DO NOT OPEN RRH PACKAGES IN THE RAIN. 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



SCALE: NOT TO SCALE

JURISDICTIONAL APPROVAMMINI, MISS

verizon BEDMINSTER, NJ 07921





VERIZON SITE NUMBER: 16968208

IRVING, TEXAS 75038

BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

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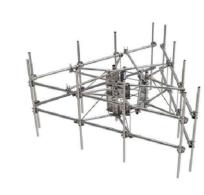


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SHEET NUMBER:

REVISION:

MCG22HD-12M-12-126



G22HD High Capacity 3-Sector Monopole Frame with 2 7/8in OD x 12.5ft face. Includes twelve 2 3/8in OD x 126in antenna pipes

Product Classification

High capacity monopole sector frame Product Type

Product Series

General Specifications

Monopole, 381-1270 mm (15-50 in) OD Mounting

12 Pipe, quantity Sectors, quantity

Dimensions

3,200.4 mm | 126 in Height 3.81 m | 12.5 ft **Face Width** 3,810 mm | 150 in 3,200.4 mm | 126 in 73.025 mm | 2.875 in Face Support Pipe Diameter 1270 mm | 50 in Mounting Diameter, maximum 381 mm | 15 in Mounting Diameter, minimum Pipe Outer Diameter 60.325 mm | 2.375 in Stand-off Distance 1,041.4 mm | 41 in

Material Specifications

Material Type Hot dip galvanized steel

Mechanical Specifications

For Specifications, please contact steelproducts@commscope.com or call 800-255-1479 Wind Rating

Wind Rating Test Method TIA/EIA-222

MCG22HD-12M-12-126

Environmental Specifications

500 lb vertical man load at 15 mph (BWS) Man Rating

Packaging and Weights

Included Pipe mounts | Plain end pipes (12) | Ring mounts (2) | Sector frames (3) | Stiff arm

Packaging quantity

* Footnotes

Wind Rating BWS-Base Wind Speed; FBC-Florida Building Code

Man Rating BWS-Base Wind Speed

Page 1 of 2

COMMSC PE®

respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: July 27, 2022

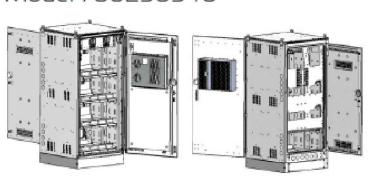
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Page 2 of 2

Model 760250540



Front View Rear View

CMC Cabinet Ordering Information

PeopleSoft Part #	Description
760250540	CMC74-36B, VRLA Battery Cabinet, 6-String, 1 kW HVAC with 500 W Heater, DC

Field Replacement Units and Aftermarket Kits

PeopleSoftPart#	Description				
Field Replacement Units (FRUs)					
760250922	Handle, Front Door				
760250925	1 kW HVAC with 500 W Heater, DC				
760250928	Circuit Breaker, Battery String, 250 A				
760250958	Front Door Assembly, with 1 kW HVAC with 500 W Heater, DC				
760253587	Rear Door Assembly, CMC74-36B				
760250961	Solar Shield, Side				
760250927	Solar Shield, Top				
Aftermarket Kits (AMKs)					
760246443	Interconnect, 3PR, 4/0, 2", CMC74-36B				
760250933	6" High Plinth, Cabinet Mounting				
Additional AMKs can	be found on pages 13-14.				

Cabinet Features

Dimensions

Overall 74" H x 43.7" D x 36" W (standard height, depth with air conditioner)

- With Optional 6" Plinth 80" H x 43.7" D x 36" W (depth with air conditioner)
- Footprint 37" D x 36" W
- (depth without air conditioner)
- Weight: 1060 lbs. (481 kg) for 6-String Cabinet Weight: as Shipped: 1237 lbs. (561 kg)
- Note: Cabinet Weights are without Plinth (112.4 lbs. [51 kg])
- Battery Compartment 1 kW HVAC with 500 W Heater, DC*
- 4 Battery Shelves, 6-String Capacity of 24 HT200 Ah VRLA Batteries Master Circuit Breaker String Panel with 6 each 250-amp String
- Circuit Breaker Switches Battery Cabling and the 250A Circuit Breakers Included
- CommScope Battery Bus Bar Assembly Connection Point for Battery Cabling to the Power Cabinet
- Maximum Cable Size of 4.0 AWG from Battery to Power Cabinet Cabinet Light
- Hinged Rear Access Door with Upper and Lower Vents
- Knockouts on Left and Right Sides, Rear Top and Side Solar Shields
- Side Shield Fits Left and Right Sides, Pending Cabinet Site Orientation (one cabinet side shield only)
- Integrated Puck Lock System Intrusion Prevention, Front and Rear Doors
- Cabinet can use both Electronic and Standard Keyed Puck Locks

Telcordia GR-487 Compliant

Safety Agency Listed

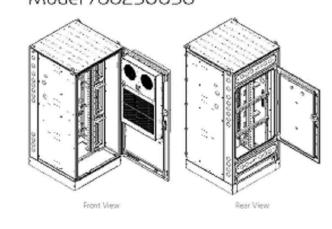
* Hardened Equipment to -40° C to +65° C

NOTE: The CommScope Part # and Verizon Wireless PeopleSoft #'s are the same.

Verizon Wireless Ordering Guide

CMC74-36E Equipment and Power Cabinet with 4 kW Air Conditioner

Model 760250058



CMC Cabinet Ordering Information

		-
PeopleSoft Part #	Description	
760250058	CMC74-36E, Equipment Cabinet, 4 KW Air Conditioner, DC	

Field Replacement Units and Aftermarket Kits

Field Replaceme	nt Units (FRUs)				
760250972	Front Door Assembly, 4kW Air Conditioner, CMC74-365				
760250922	Handle, Front Door				
760250960	Rear Door Assembly				
760250935	4 kW Air Conditioner, DC				
760250926	Interchangeable Conduit Panel, Rear				
760250927	Solar Shield, Top				
Aftermarket Kits	s (AMKs)				
760246443	Interconnect, 3PR, 4/0, 2", CMC74-B				
760250933	6 High Plinth, Cabinet Mounting				

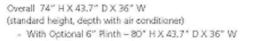
NOTE: The CommScope Part # and Verizon Wireless PeopleSoft #'s are the same.

RF CABINET DETAIL

SCALE: NOT TO SCALE

Cabinet Features

Dimensions

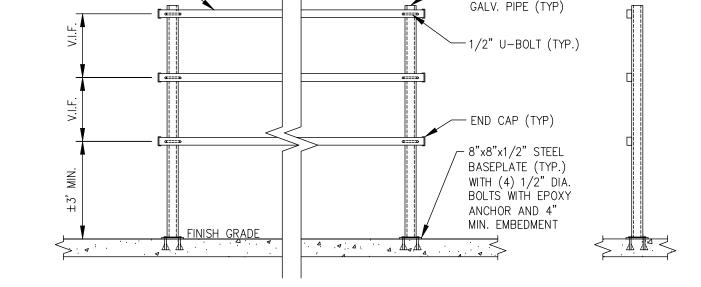




- Note: Cabinet Weights are without Plinth (112,4 lbs. [51 kg]) Equipment Compartment
- 4 kW Air Conditioner, DC*
- Adjustable Equipment Rack System, Up to 49 RU - Up to 40 RU of 23" EIA Horizontal Rack Space
- Up to 9 RU of 19" EIA Vertical Rack Space OVP Vertical Side Mounting Options
- Allows more Horizontal Rack Space for Equipment
- Cabinet Light 4-Position GFCI Outlet
- Hinged Rear Access Door Two Interchangeable Rear Port Panels
- Cabinet Ships with One Conduit Knockout Panel and One Blank
- Knockouts on Left and Right Sides, Rear Solar Shield, Top
- Integrated Puck Lock System Intrusion Prevention, Front and Rear Doors Cabinet can use both Electronic and Standard Keyed Puck Locks

Telcordia GR-487 Compliant Safety Agency Listed

* Hardened Equipment to -40° C to +65° C



ELEVATION

3" DIA. SCH 40 STAINLESS

STEEL OR GALV. PIPE (TYP) -

8"x8"x1/2" STEEL

3" DIA. SCH 40

STAINLESS STEEL OR

END VIEW

BASEPLATE:

VERIZON H-FRAME DETAIL SCALE: NOT TO SCALE

4'-0" MAX. TO EACH POST

CONTRACTOR TO VERIFY

OVERALL LENGTH REQUIRED TO

ACCOMMODATE EQUIPMENT

<u>PLAN VIEW</u>

1-1/2" GALV. SQUARE

P1000 UNISTRUT RAIL (12

EXACT LOCATION IN FIELD-

GA.) (TYP.) COORDINATE

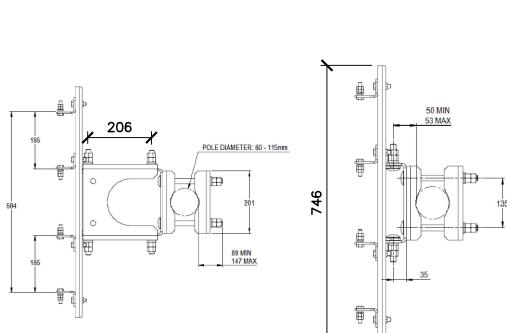
BATTERY CABINET DETAIL SCALE: NOT TO SCALE

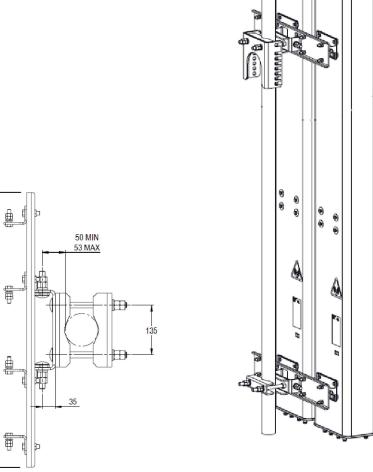
COMMSCOPE SIDE BY SIDE MOUNTING KIT (OR APPROVED EQUAL): 639845-1 BSAMNT-SBS-2-2

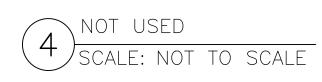
DIMENSIONS HxW (mm): 5.20"(132) x 29.37"(746)

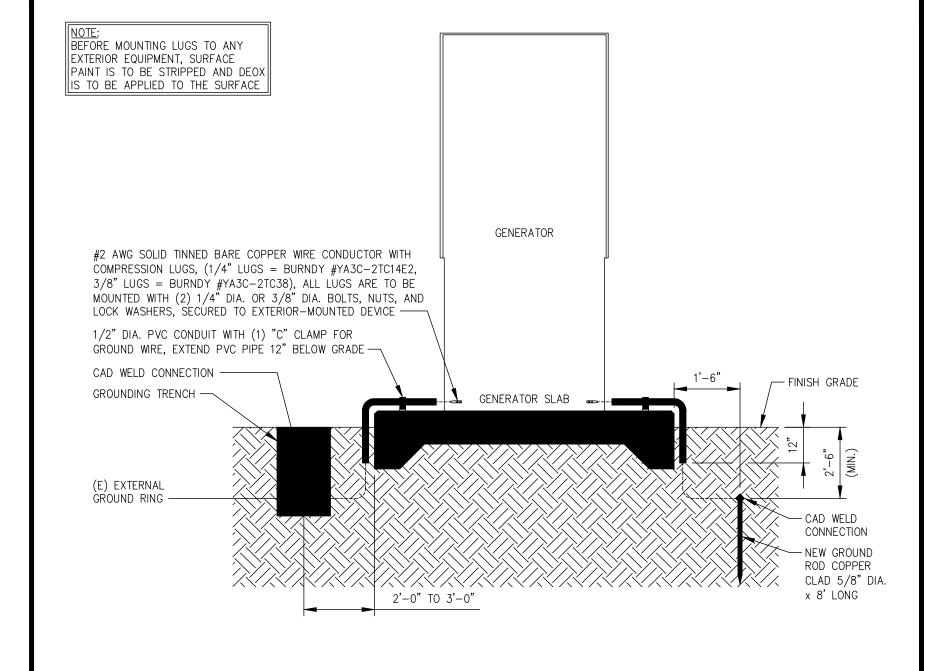
ALLOWS MOUNTING EITHER (2) 350mm OR (2) MOUNTING: 457mm WIDE ANTENNAS WITH 2 MOUNT POINTS SIDE BY SIDE

> CYLINDRICAL PIPE INSTALLATIONS 2.4"-4.5"(60-115mm) PIPE DIAMETER FOR HEAVY DUTY APPLICATIONS

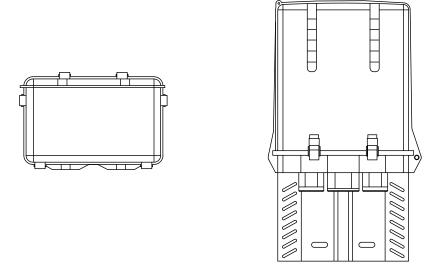








GENERATOR GROUNDING DETAIL (TYPICAL) CALE: NOT TO SCALE



RAYCAP - RCMDC-3315-PF-48 WEIGHT (WITHOUT MOUNTING HARDWARE): 32.0 LBS SIZE (HxWxD): 25.66x15.73x10.26 IN.

RATED WIND VELOCITY: 150 MPH (SUSTAINED) OPERATING TEMPERATURE: -40° C TO +80° C NOMINAL OPERATING DC VOLTAGE: 48 VDC

RAYCAP - RCMDC - 3315 - PF - 48SCALE: NOT TO SCALE



JURISDICTIONAL APPROVALIMITY





IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

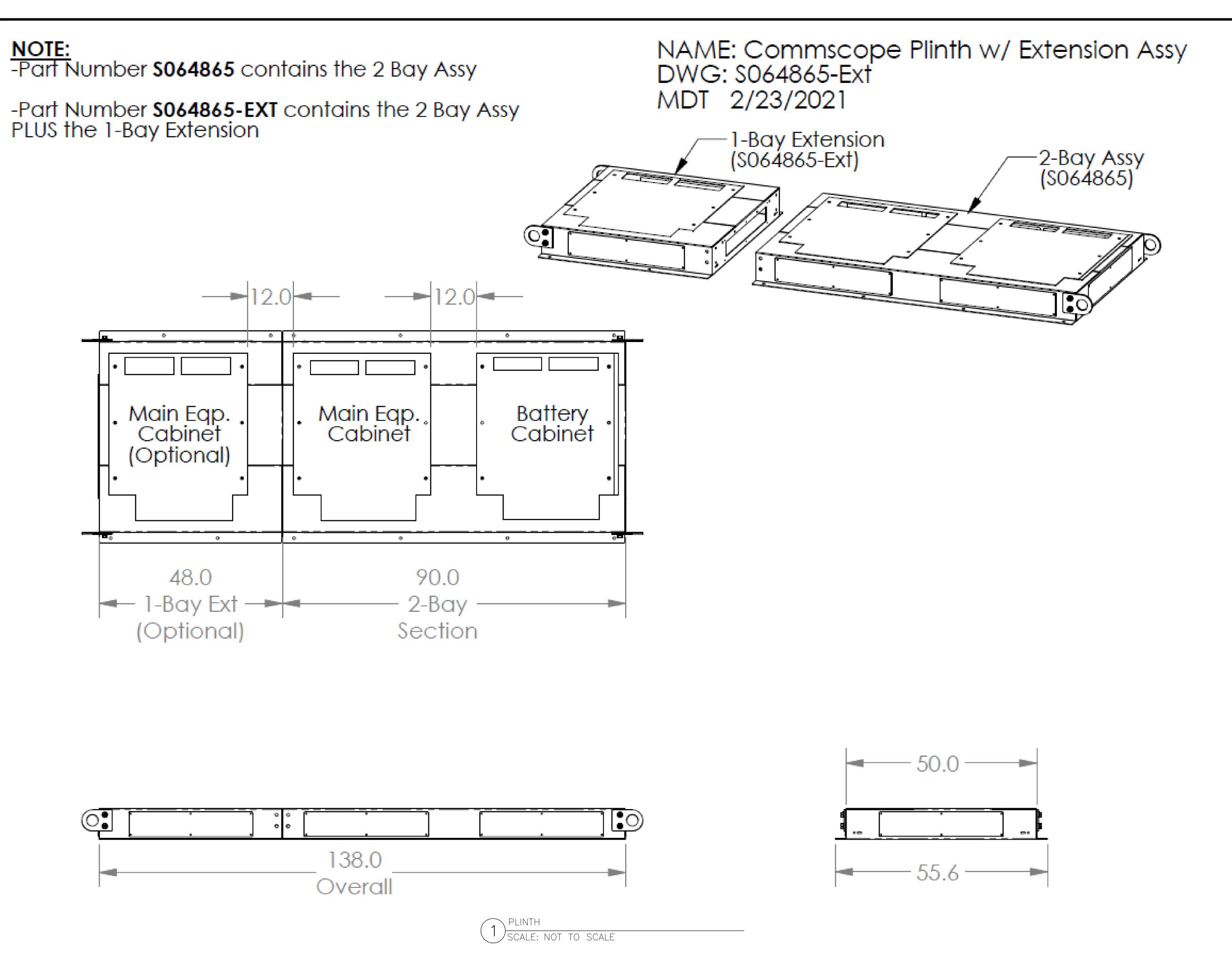
BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063 EXISTING 180'-0" MONOPOLE

REV	DATE	DRWN	DESCRIPTION	DES./QA
3	09/18/2023	TFL	FINAL	AMT
4	10/17/2023	RC	FINAL	AMT
5	01/09/2024	TFL	FINAL	AMT
6	01/23/2024	RC	FINAL	AMT
7	03/29/2024	RC	FINAL	AMT
8	04/05/2024	RC	FINAL	AMT
9	04/19/2024	RC	FINAL	AMT
10	07/25/2024	RC	FINAL	AMT
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13	10/15/2024	RC	FINAL	AMP
14	12/05/2024	RC	FINAL	AMP



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SHEET NUMBER:



JURISDICTIONAL APPRO V Aummit, M
01/22/2025

verizon vallev BOAD

BEDMINSTER, NJ 07921





25 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

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SHEET NUMBER:



180 WASHINGTON VALLEY ROAD

CROWN

BEDMINSTER, NJ 07921

MAHWAH, NJ 07430

1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063 EXISTING 180'-0" MONOPOLE

=				
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12	09/19/2024	RC	FINAL	AMT
13	10/15/2024	RC	FINAL	AMP
14	12/05/2024	RC	FINAL	AMP



- 6x12 HCS CABLE

- FIBER SPLICE CONNECTOR

- MOUNT NEW CONNECTOR TO (E)

ANTENNA BRACKETS OR PIPE MOUNTS WITH GALV. HEAVY DUTY HOSE CLAMP

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SHEET NUMBER:

REVISION:

NOT USED
SCALE: NOT TO SCALE

NUMBER OF LINES SHOWN FOR REFERENCE ONLY.
ACTUAL # OF DC AND FIBER LINES SPECIFIC TO
MODEL OF HCS CABLES

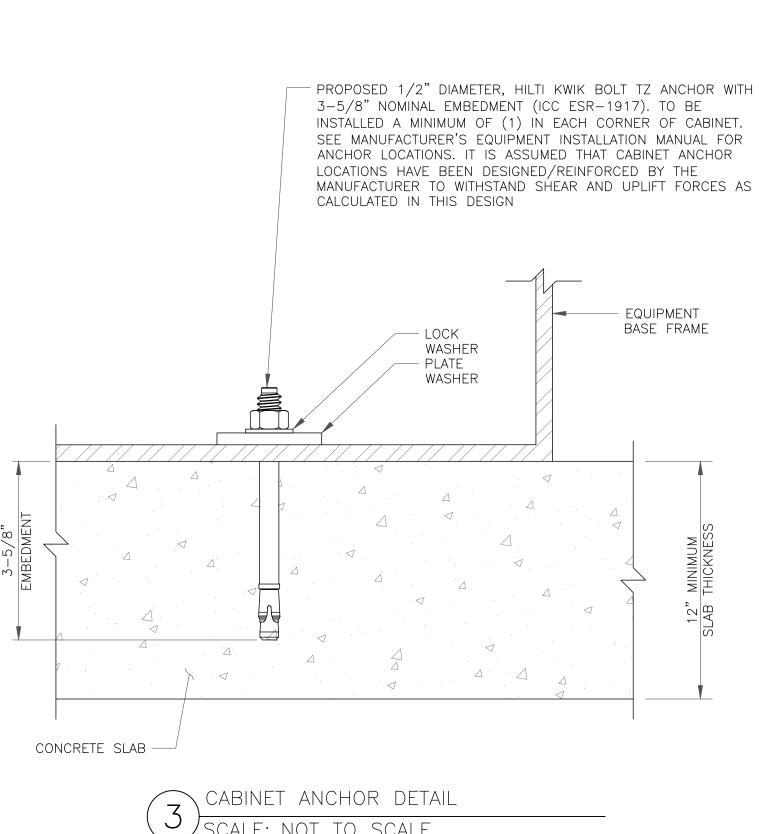
(12) FIBER JUMPERS TO ANTENNAS

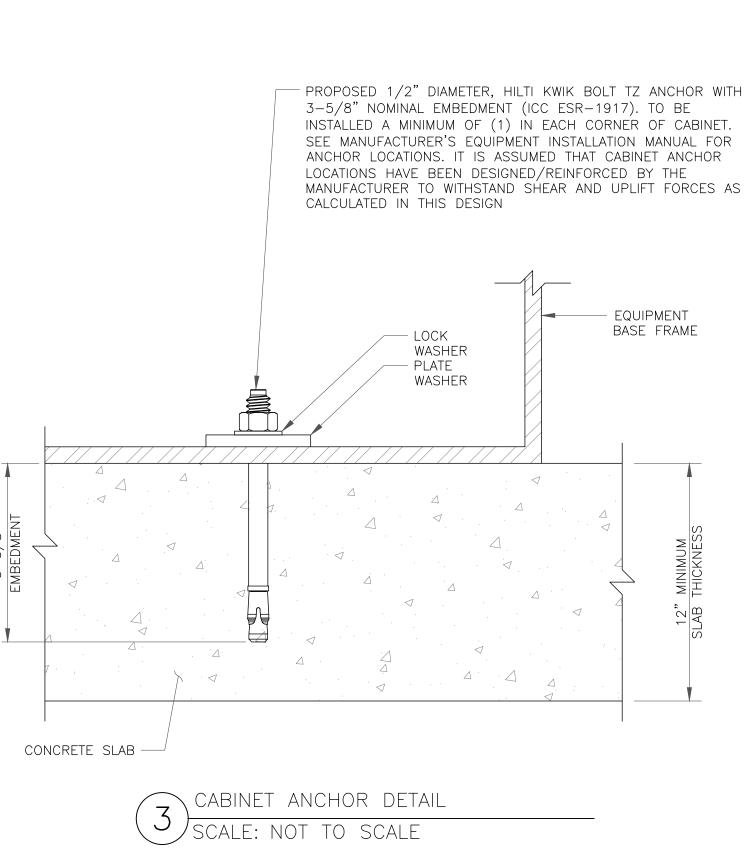
(6) DC POWER CABLES

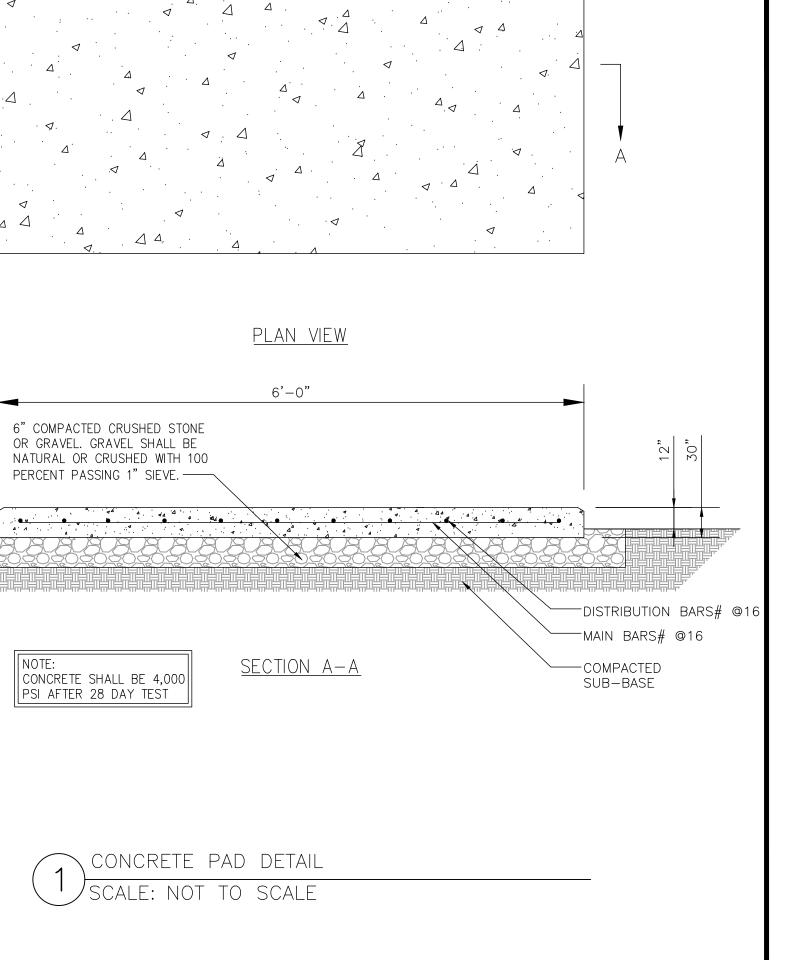
SCALE: NOT TO SCALE

\ HYBRID CABLE

TO ANTENNAS OR RRUS







6'-0"



180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921

JURISDICTIONAL APPROVSAummit, Miss

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200

0 MACARTHUR BLVD, SUITE MAHWAH, NJ 07430



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

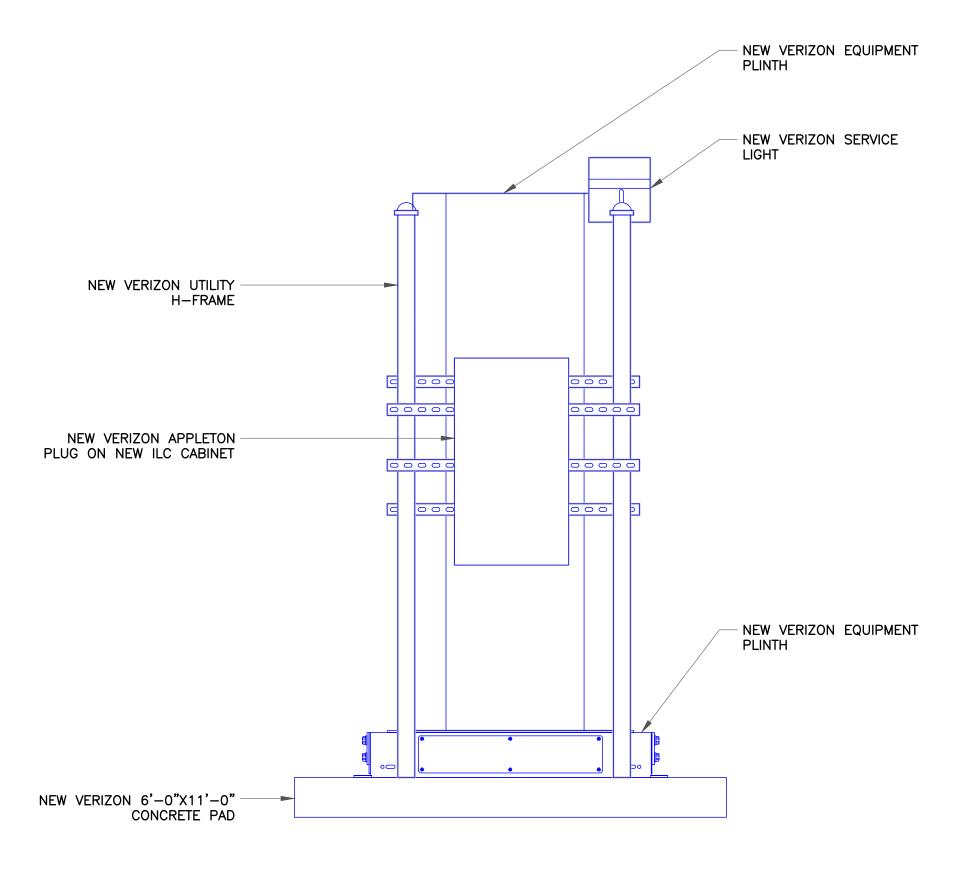
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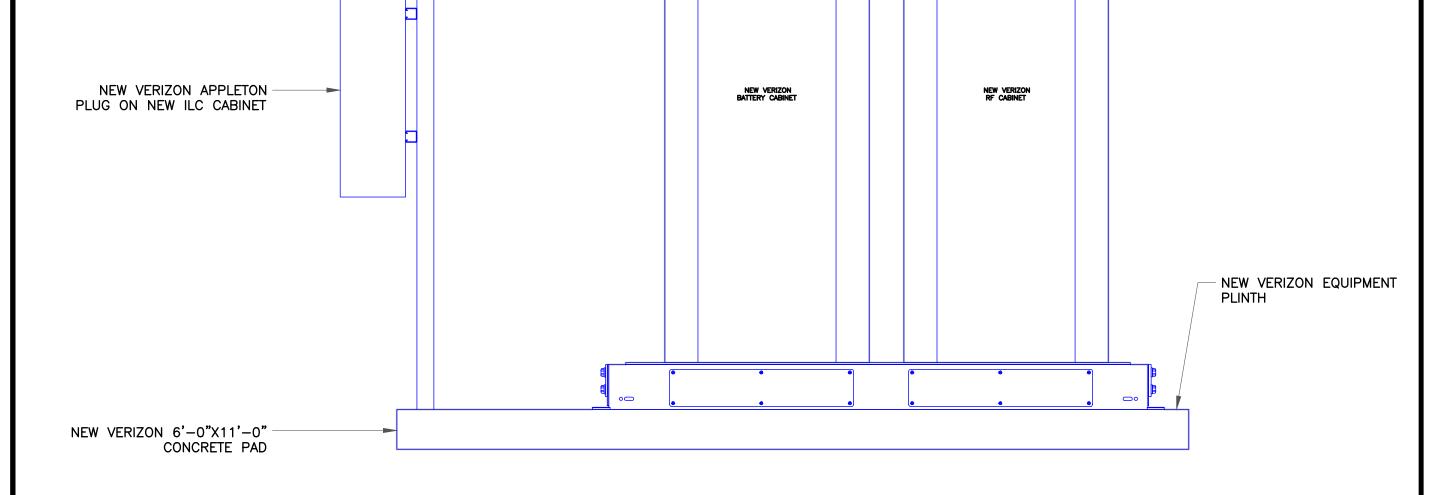


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SHEET NUMBER:

ER: REVISION: 14





NEW VERIZON SERVICE -LIGHT

NEW VERIZON UTILITY -H-FRAME

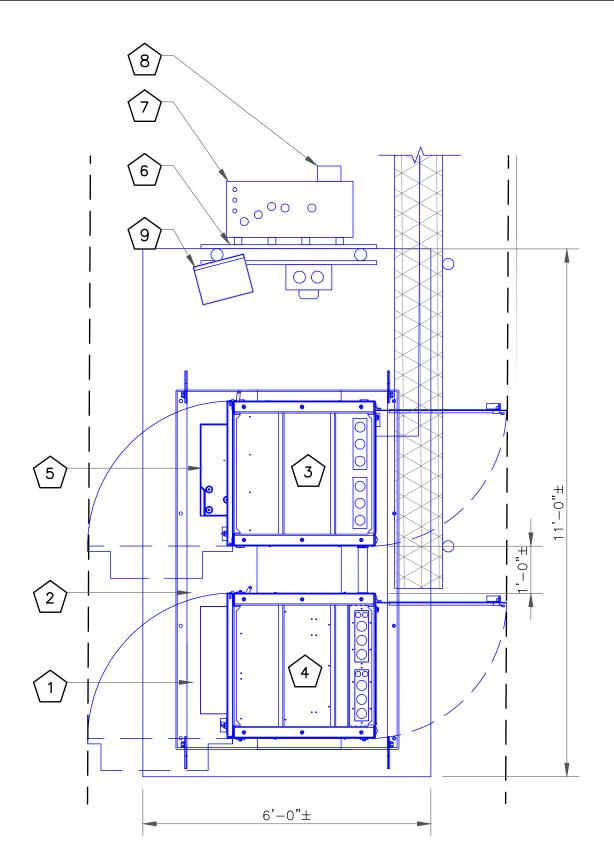
FRONT EQUIPMENT ELEVATION

SCALE: NOT TO SCALE

SIDE EQUIPMENT ELEVATION
SCALE: NOT TO SCALE

CODED DRAWING NOTES

- 1) NEW VERIZON 11'-0"x6'-0" EQUIPMENT PAD
- 2) NEW VERIZON EQUIPMENT PLINTH
- 3 NEW VERIZON RF CABINET
- 4 NEW VERIZON BATTERY CABINET
- 5 NEW VERIZON RACK MOUNTED OVP
- 6 NEW VERIZON EQUIPMENT H-FRAME
- 7 NEW VERIZON ILC CABINET
- 8 NEW VERIZON APPLETON PLUG ON NEW ILC CABINET
- 9 NEW VERIZON SERVICE LIGHTS



1 EQUIPMENT LAYOUT SCALE: NOT TO SCALE

Vorizon√

JURISDICTIONAL APPROEVS Allmit, Mes



180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921

1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

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SHEET NUMBER:

SER: REVISION: 14

NOT USED

SCALE: NOT TO SCALE

NOT USED

SCALE: NOT TO SCALE

NOT USED

SCALE: NOT TO SCALE

	Antenna Summary											
Added An	Added Antenna											
700	850	1900	AWS	L-Sub6	Make	Model	Centerl ine	Tip Height	Azimuth	Install Type	Quantity	
				5G	Ericsson	AIR6419	85	86.2	0(1),120(2),240 (3)	PHYSICAL	3	
LTE	LTE	LTE	LTE		COMMSCOPE	NHH-65C-R2B	85	89	0(1),120(2),240 (3)	PHYSICAL	6	

Removed	Removed Antenna										
700	850	1900	AWS	L-Sub6	Make	Model	Centerl ine	Tip Height		Install Type	Quantity

Retai	ined Antenn	a									
700	850	1900	AWS	L-Sub6	Make	The state of the s	Centerl ine	Tip Height	Azimuth	Install Type	Quantity
							1110	ricigiit		1,700	

Added: 9	Removed: 0	Retained: 0
/ tadea. o	Telliored. 6	retained. o

						No	n Antenna Summary				
Added Non A	dded Non Antenna										
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Install Type	Quantity	
OVP	Tower							12 OVP	PHYSICAL	1	
OVP	Shelter							12 OVP	PHYSICAL	1	
RRU	Tower	LTE	LTE				Ericsson	4490	PHYSICAL	3	
RRU	Tower			LTE	LTE		Ericsson	4890	PHYSICAL	3	
BBU	Shelter						Ericsson	6651	PHYSICAL	1	
Hybrid Cable	Tower						6X12 Hybrid Cable	6X12 hybrid Cable	PHYSICAL	2	
RRU	Tower					5G	Ericsson	AIR6419_B77D	PHYSICAL	0	

Removed Nor	Removed Non Antenna									
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make		Install Type	Quantity

Retained Non Antenna										
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Install Type	Quantity

Added: 11	Removed: 0	Retained: 0
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JURISDICTIONAL APPRO Services Department Servi

Verizon

180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921





IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

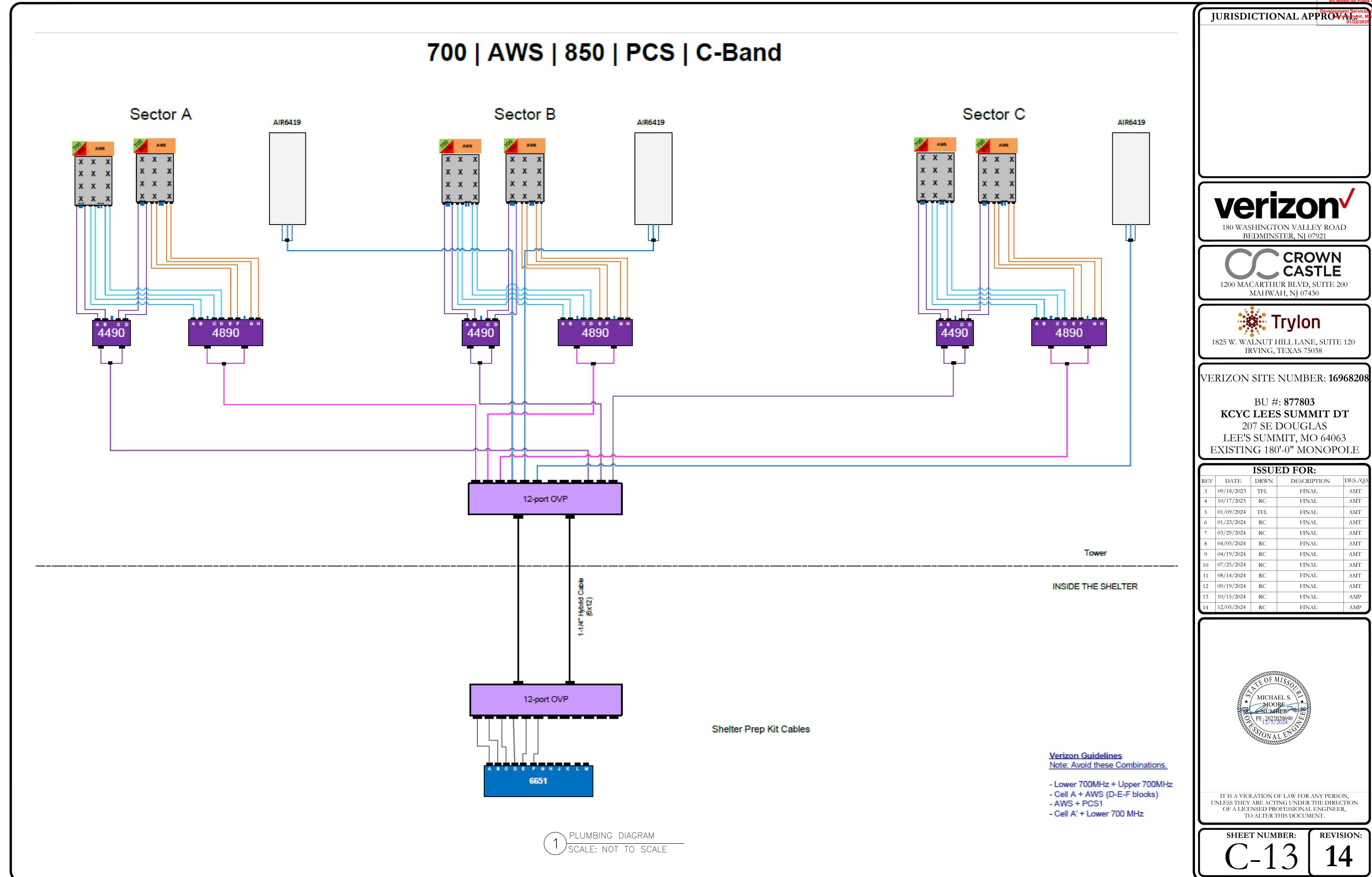
BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063
EXISTING 180'-0" MONOPOLE

ISSUED FOR:						
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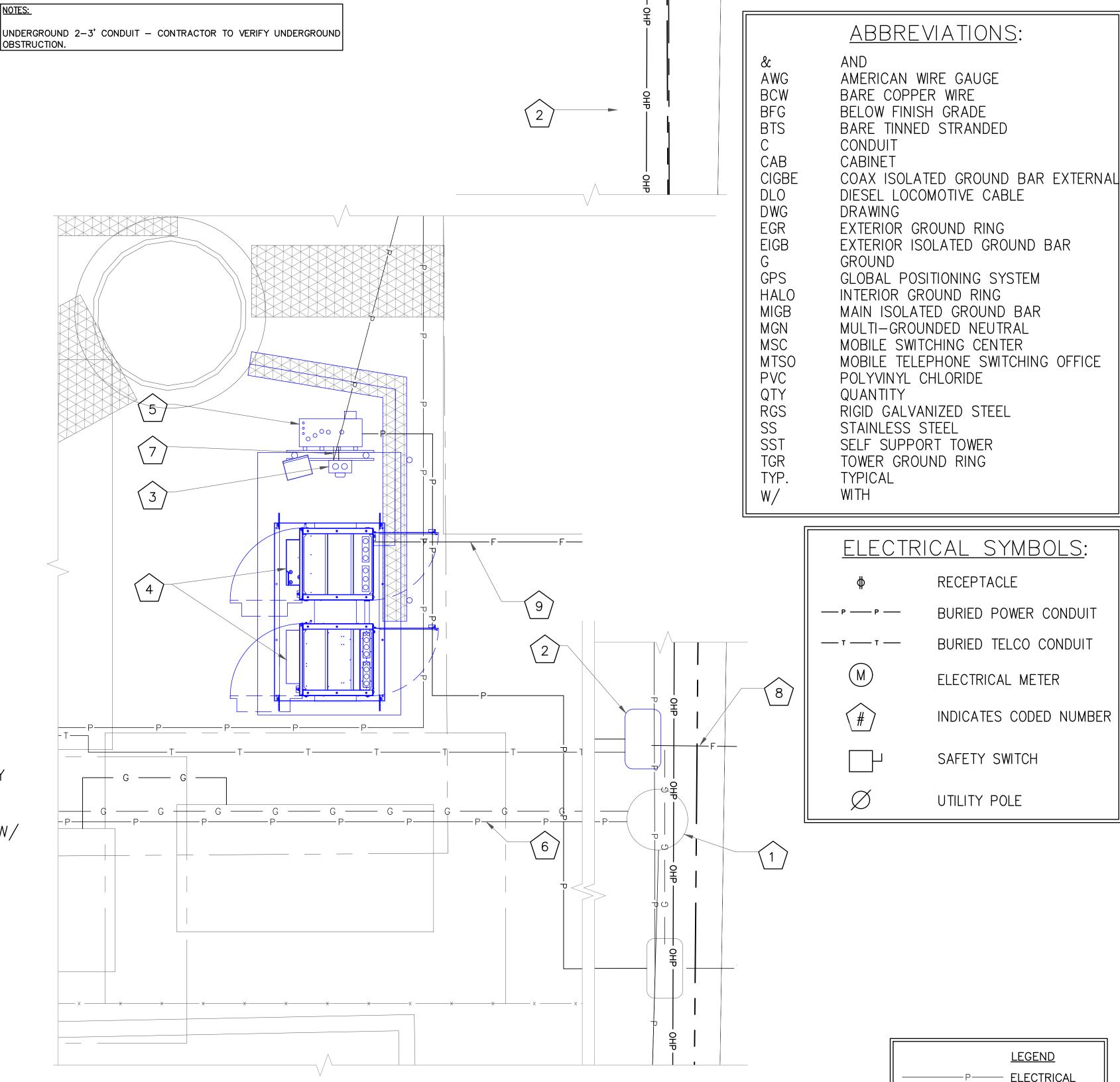


GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
- 2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS.
- 3. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED, POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
- 4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
- 5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS, NOT DUCT TAPE.
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

CODED DRAWING NOTES:

- 1) EXISTING UTILITY POLE
- 2) NEW VERIZON FIBER HANDHOLE COVER SHALL BE STAMPED VERIZON
- (3) NEW VERIZON 200A METER SOCKET W/ DISCONNECT
- (4) NEW VERIZON CABINETS ON A NEW 11'-0"x4'-0" EQUIPMENT PAD
- NEW VERIZON ILC CABINET ON NEW EQUIPMENT H-FRAME
- 6 EOR POWER (1) 2" SCH. 40 PVC CONDUIT FOR POWER FROM EXISTING UTILITY POLE TO NEW VERIZON 200A METER SOCKET W/ DISCONNECT
- (1) 2" SCH. 40 PVC CONDUIT FROM NEW VERIZON 200A METER SOCKET W/DISCONNECT TO NEW ILC CABINET
- EOR TELCO (1) 4" SCH 40 PVC CONDUIT WITH (3) 1" INNERDUCTS, MULE TAPE AND TRACE WIRE FOR FIBER BETWEEN THE (2) NEW FIBER HANDHOLES (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- EOR_TELCO (1) 2" SCH 40 PVC CONDUIT WITH MULE TAPE FOR FIBER FROM THE NEW FIBER HANDHOLE TO THE EQUIPMENT CABINET.



NOTE: ICE BRIDGE NOT SHOWN FOR CLARITY.

NOTE:
CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR
TO CONSTRUCTION. COORDINATE LOCATION OF ALL PROPOSED
DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

BU:

OVERALL CONDUIT LAYOUT

SCALE: NOT TO SCALE

BU: 877803 ORDER: 547366 RES: ROBERT ROSS

UTILITY GUIDANCE

UTILITY GUIDANCE (NON DOCUMENTED): GROUND LEASE DOES NOT SPECIFY OUR UTILITY RIGHTS. WHEN INSTALLING THE UTILITIES PLEASE LOCATE AND FOLLOW EXISTING PATH. IF EXISTING PATH IS NOT AN OPTION, PLEASE NOTIFY CCRE AS FURTHER COORDINATION MAY BE NEEDED.

FUEL/GAS/OIL

TELECOMM
TELECOMM
TELECOMM

Verizon\

JURISDICTIONAL APPROV Aummit, M

CROWN

BEDMINSTER, NJ 07921

1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

BU #: 877803

KCYC LEES SUMMIT DT

207 SE DOUGLAS

LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

	ISSUED FOR:						
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. 14	12/05/2024	RC	FINAL	AMP			



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SHEET NUMBER:

14

CODED DRAWING NOTES:

- 1) EXISTING UTILITY POLE W/ POLE MOUNTED TRANSFORMER (NOT SHOWN)
- NEW VERIZON FIBER HANDHOLE (MEET ME POINT) (LOCATION TBD) (NOT SHOWN)
- 3 NEW UTILITY H-FRAME
- NEW VERIZON 200A METER SOCKET W/ DISCONNECT IN EMPTY METER SLOT C ON EXISTING METERBANK
- 5 NEW VERIZON ILC CABINET W/ INTEGRATED ATS
- 6 NEW VERIZON BATTERY CABINET
- 7) NEW VERIZON RF CABINET
- 8) NEW VERIZON BACKUP GENERATOR (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 9 EOR POWER (1) 2" SCH. 40 PVC CONDUIT FROM EXISTING UTILITY POLE (NOT SHOWN) TO NEW VERIZON METER/DISCONNECT SWITCH (NOT SHOWN) (PENDING COORDINATION WITH LOCAL LITTLEY COMPANY)
- (1) 2" SCH. 40 PVC CONDUIT FROM NEW ELECTRIC METER/DISCONNECT SWITCH TO NEW ILC CABINET W/ INTEGRATED ATS
- (1) 3/4" SCH. 40 PVC CONDUIT FOR ALARMS FROM NEW ILC CABINET W/ INTEGRATED ATS TO NEW VERIZON BACKUP GENERATOR (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- (1) 2" SCH. 40 PVC CONDUIT FOR POWER FROM NEW ILC CABINET W/ INTEGRATED ATS TO NEW TO PROPOSED VERIZON BACKUP GENERATOR (CONTRACTOR TO SUPPLY SIZE/1TY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FROM NEW VERIZON ILC CABINET W/ INTEGRATED

 ATS TO NEW VERIZON POWER RF CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS

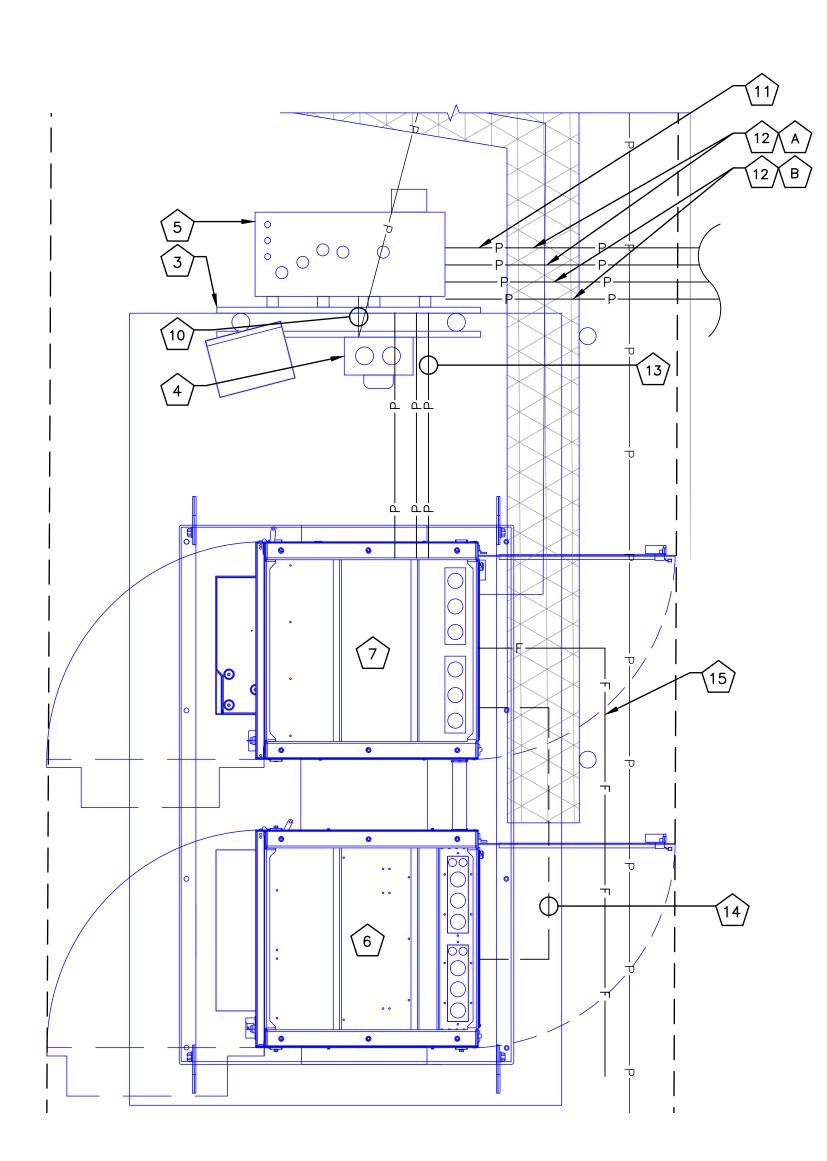
 PER MANUFACTURER SPECIFICATIONS)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FROM NEW VERIZON RF CABINET TO NEW VERIZON BATTERY CABINET
- EOR TELCO (1) 2" PVC CONDUIT FROM NEW FIBER HANDHOLE TO NEW VERIZON RF CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)

NOTE: ICE BRIDGE NOT SHOWN FOR CLARITY

NOTE:
CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR
TO CONSTRUCTION. COORDINATE LOCATION OF ALL PROPOSED
DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

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- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
- 2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS.
- 3. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED, POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
- 4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
- 5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS, NOT DUCT TAPE.
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.



ABBREVIATIONS: AWG AMERICAN WIRE GAUGE BCW BARE COPPER WIRE BELOW FINISH GRADE BTS BARE TINNED STRANDED CONDUIT CAB **CABINET** CIGBE COAX ISOLATED GROUND BAR EXTERNAL DIESEL LOCOMOTIVE CABLE DWG DRAWING EGR EXTERIOR GROUND RING EXTERIOR ISOLATED GROUND BAR EIGB GPS GLOBAL POSITIONING SYSTEM HALO INTERIOR GROUND RING MIGB MAIN ISOLATED GROUND BAR MGN MULTI-GROUNDED NEUTRAL MSC MOBILE SWITCHING CENTER MTS0 MOBILE TELEPHONE SWITCHING OFFICE PVC POLYVINYL CHLORIDE QTY QUANTITY RGS RIGID GALVANIZED STEEL SS STAINLESS STEEL SST SELF SUPPORT TOWER TOWER GROUND RING

ELECTF	RICAL SYMBOLS:
ф	RECEPTACLE
— P — P —	BURIED POWER CONDUIT
	BURIED TELCO CONDUIT
M	ELECTRICAL METER
#	INDICATES CODED NUMBER
	SAFETY SWITCH
Ø	UTILITY POLE

GENERATOR CONDUITS:

TYP.

W/

TYPICAL

WITH

- A. (1) 2" CONDUIT (AC POWER) ILC TO GENERATOR
- B. (1) 1" CONDUIT WITH 2 #12 AC CIRCUITS (CHARGER AND HEATER) ILC TO GENERATOR
- C. (1) 1" CONDUIT WITH 1 #14 DC CIRCUIT (START/STOP)
 ILC TO GENERATOR
 D. (1) 1" CONDUIT WITH 2 CAT5'S (1 TO THE TRANSFER

SWITCH AND 1 TO THE GENERATOR) ILC TO GENERATOR

- EQUIPMENT CABINET:

 F. (1) 2" CONDUIT (AC POWER) II C
- E. (1) 2" CONDUIT (AC POWER) ILC TO EQUIPMENT CABINET/PLINTHF. (1) 2" CONDUIT (ALARMS) ILC TO EQUIPMENT
- CABINET/PLINTH
 G. (1) 2" CONDUIT (FUTURE) ILC TO EQUIPMENT
- CABINET/PLINTH

 H. (1) 3"CONDUIT (OR PER JURISDICTION) (MAIN POWER)

 METER TO ILC

Verizon 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921

JURISDICTIONAL APPROVALINITIES ME





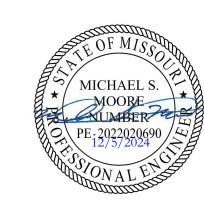
IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063

EXISTING 180'-0" MONOPOLE

ISSUED FOR:						
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SHEET NUMBER:

REVISION:

1 EQUIPMENT CONDUIT LAYOUT SCALE: NOT TO SCALE

POWER NOTES:

(1) ALL SERVICE EQUIPMENT SHALL USE EUSERC/POWER COMPANY REQUIREMENTS AND BE REVIEWED & APPROVED BY POWER COMPANY PRIOR TO CONSTRUCTION.

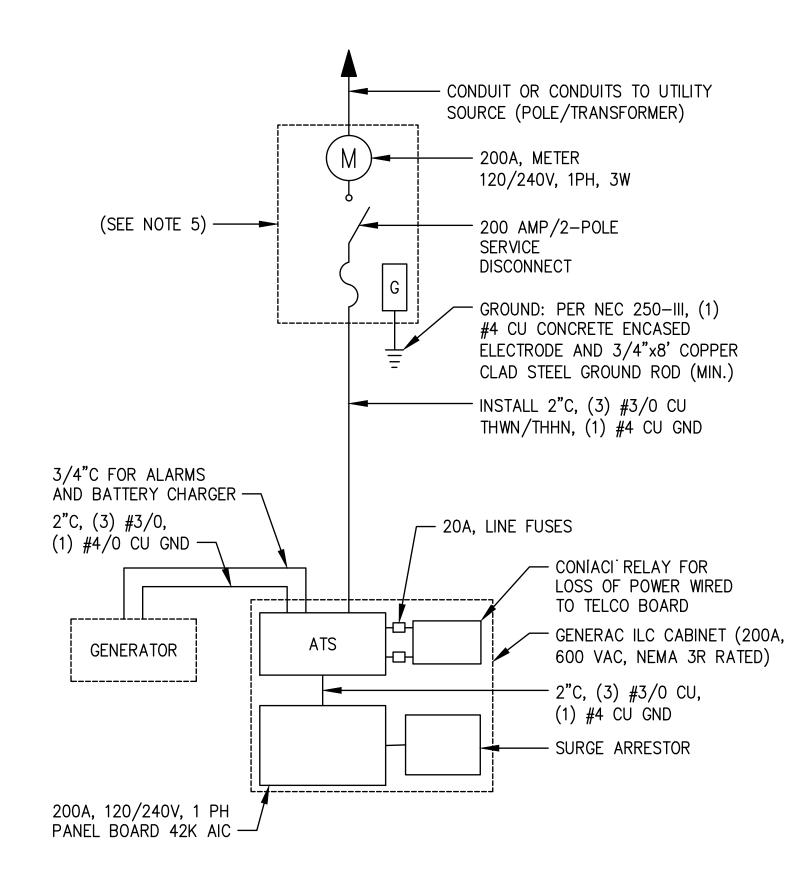
(2) ALL CONDUITS MUST BE COPPER UNLESS OTHERWISE SPECIFIED.

(3) CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS & CONSTRUCT TO UTILITY ENGINEERING PLANS & SPECIFICATIONS ONLY.

(4) CONTRACTOR SHALL FURNISH AND INSTALL CONDUITS, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, PAY ALL UTILITY FEES, & INCLUDE REQUIREMENTS IN SCOPE

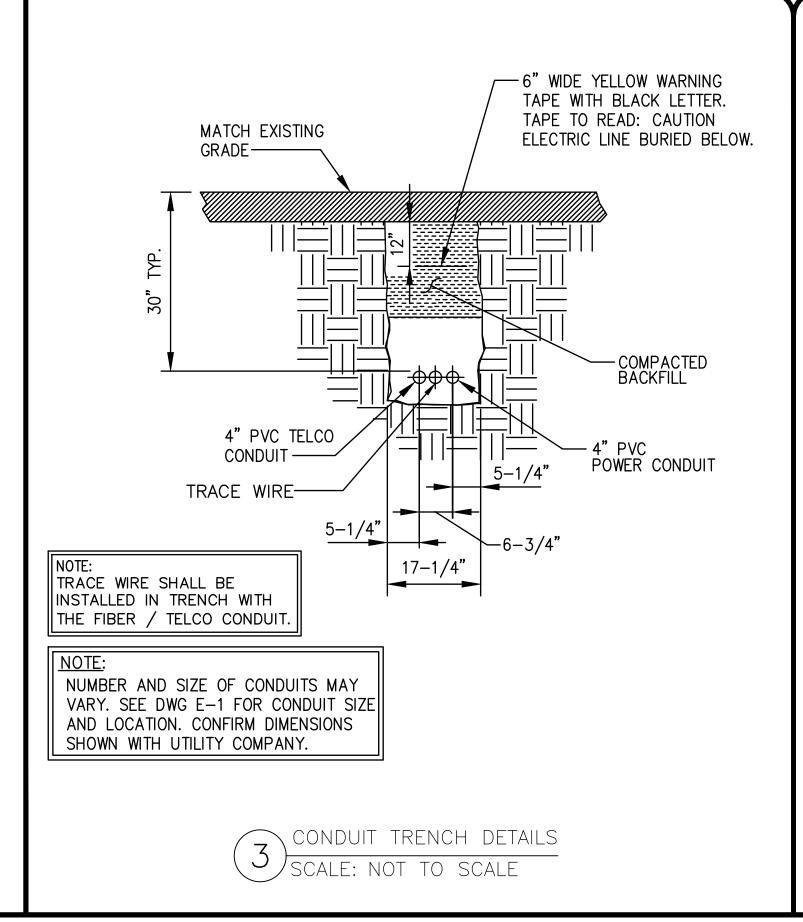
(5) COMMERCIAL ELECTRICAL SERVICE COMBINATION METER AND MAIN DISCONNECT, 200A 120/240V, 1-PHASE, 3-WIRE, RING-TYPE, WITH TEST-PASS FACILITIES, 10K AIC, NEMA 3R ENCLOSURE

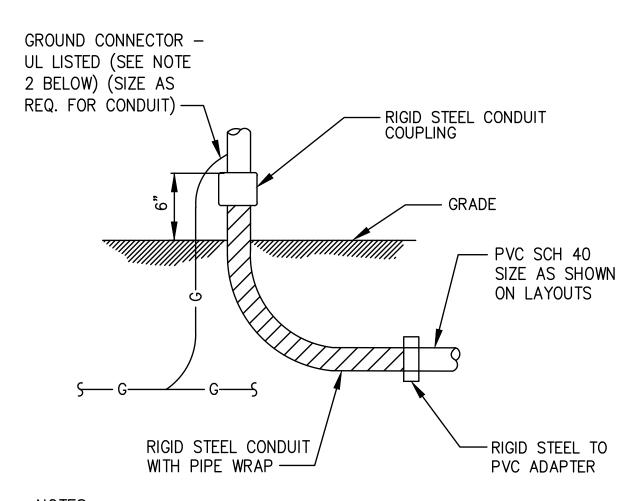
(6) THE DESIGN CRITERIA USED FOR THIS PROJECT WAS THE 2014 NEC



NOT USED

SCALE: NOT TO SCALE





NOTES 1 AT

ALL CONDUIT ABOVE GRADE MUST BE RIGID STEEL OR LIQUIDTIGHT
 ALL NEW STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 G90 AFTER FABRICATION.
 FIELD ABRASIONS SHALL BE TOUCH UP PAINTED WITH ZINC RICH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780.
 ALL EXPOSED ENDS OF CONDUITS SHALL HAVE WEATHER PROOF CAPS. DO NOT USE DUCT TAPE.
 PROVIDE 200LB. TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT. STUB CONDUITS INTO ENCLOSURE AND LABEL.

4 UNDERGROUND CONDUIT STUB-UP SCALE: NOT TO SCALE



JURISDICTIONAL APPROVALING





1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: 16968208

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063
EXISTING 180'-0" MONOPOLE

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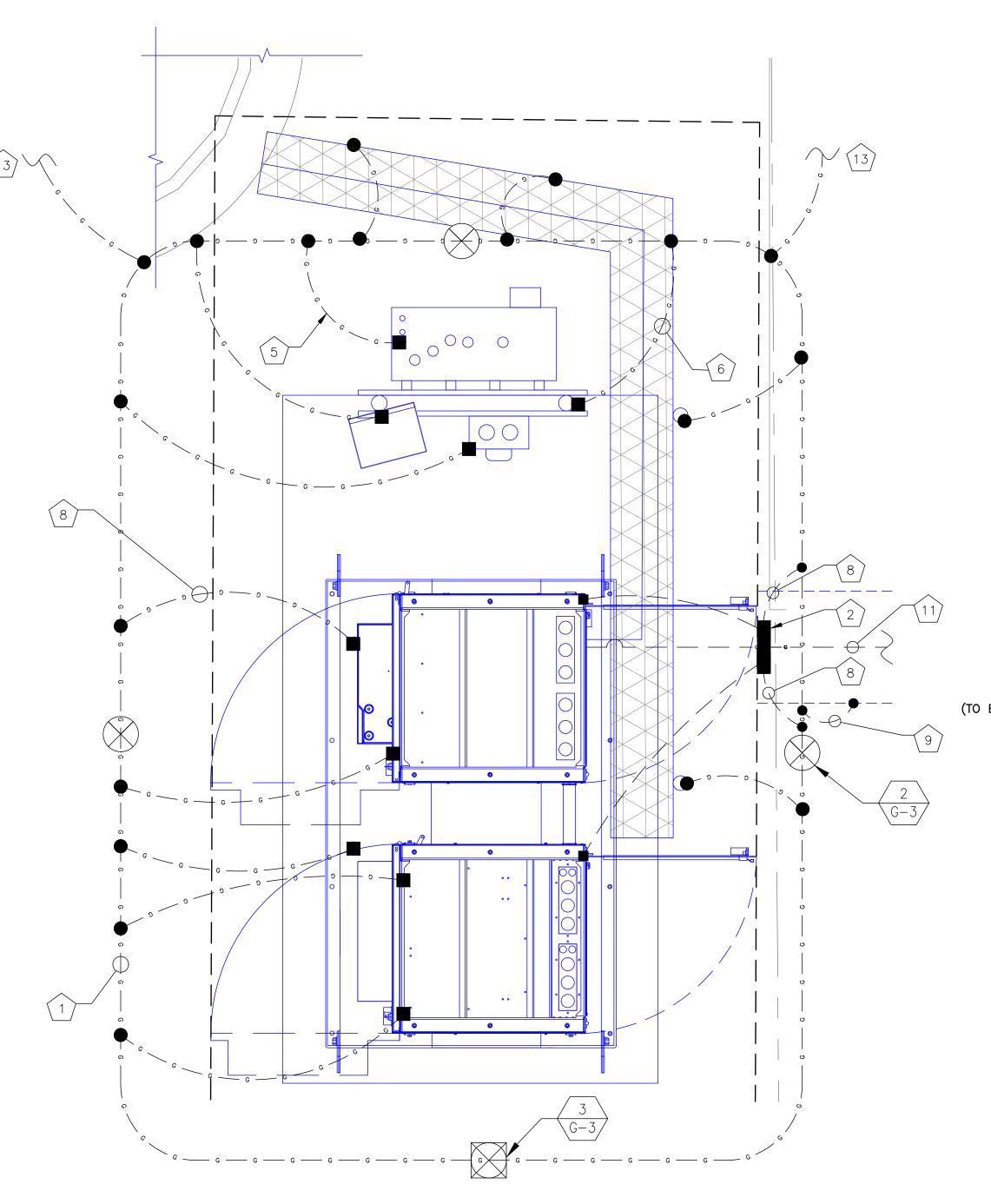
SHEET NUMBER:

REVISION:

1) ELECTRICAL ONE LINE DIAGRAM (TYPICAL) SCALE: NOT TO SCALE

CODED DRAWING NOTES:

- PROPOSED VERIZON BURIED EQUIPMENT GROUND RING (#2 SOLID TINNED BCW)
- PROPOSED EQUIPMENT GROUND BAR NEAR PROPOSED VERIZON EQUIPMENT (TYP. OF (2))
- PROPOSED VERIZON POWER DISTRIBUTION CABINET TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED VERIZON BBU CABINET TO BE
 GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED VERIZON ILC CABINET W/ INTEGRATED ATS TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED EQUIPMENT H-FRAME TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- EXISTING TOWER GROUND RING (NOT SHOWN)
- BOND PROPOSED EQUIPMENT GROUND BAR TO NEW VERIZON BURIED EQUIPMENT GROUND RING WITH #2 SOLID TINNED BCW. (TYP. OF (2) PLACES PER GROUND BAR)
- BOND PROPOSED ICE BRIDGE TO NEW VERIZON BURIED EQUIPMENT GROUND RING WITH #2 SOLID TINNED BCW. (TYP.)
- PROPOSED VERIZON TOWER BASE CIGBE (TYP. OF (1)) (NOT SHOWN)
- BOND PROPOSED VERIZON TOWER BASE CIGBE (NOT SHOWN) TO PROPOSED EQUIPMENT GROUND BAR WITH #2 SOLID TINNED BCW. (CONTRACTOR TO VERIFY)
- BOND PROPOSED VERIZON TOWER TOP CIGBE (NOT SHOWN) TO PROPOSED TOWER BASE CIGBE (NOT SHOWN) WITH #2 SOLID TINNED BCW. (CONTRACTOR TO VERIFY)
- BOND PROPOSED VERIZON BURIED EQUIPMENT GROUND RING TO EXISTING COMPOUND GROUNDING SYSTEM WITH #2 SOLID TINNED BCW. (TYP. OF (2) PLACES) (CONTRACTOR TO VERIFY)
- BOND TOWER BASE CIGBE (NOT SHOWN) TO EXISTING TOWER GROUND RING (NOT SHOWN) WITH #2 SOLID TINNED BCW. (CONTRACTOR TO VERIFY)
- PROPOSED BACKUP GENERATOR TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS



TYPICAL GROUNDING PLAN

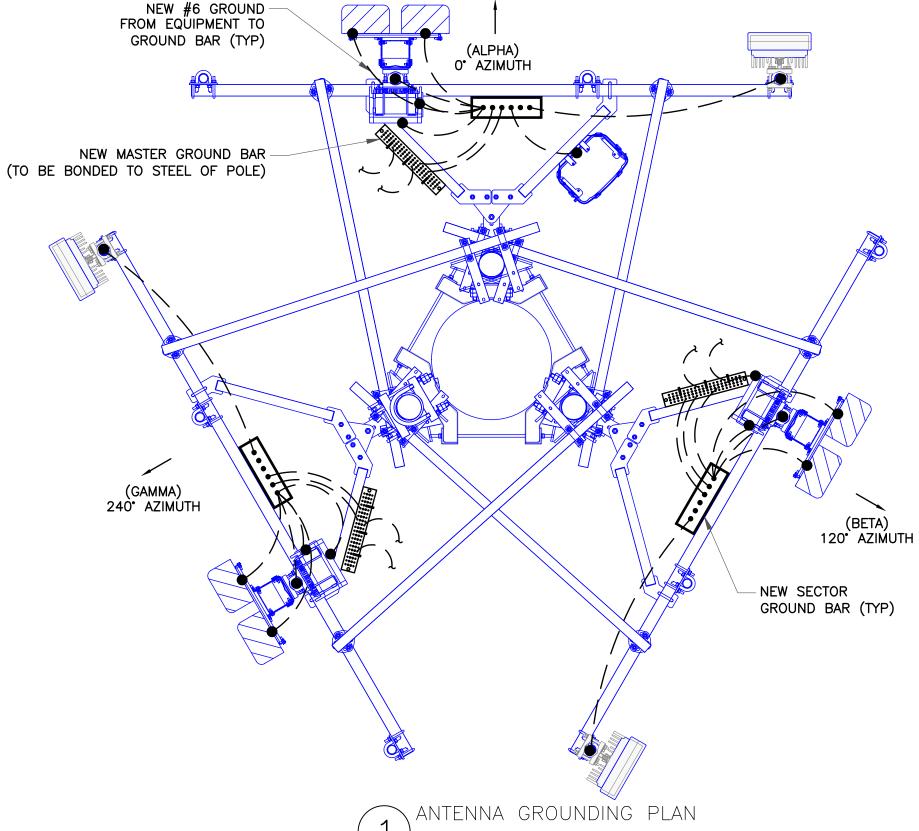
SCALE: NOT TO SCALE

GENERAL GROUNDING NOTES:

- TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:

 #2 BARE TINNED SOLID COPPER CONDUCTOR: EXOTHERMIC WELD TO RODS OR GROUND RING
 LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- 2. ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
- 3. OWNER'S REPRESENTATIVE WILL INSPECT EXOTHERMIC WELD AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
- 4. CONTRACTOR TO INSTALL GROUNDING IN CLOSE PROXIMITY TO EQUIPMENT PLATFORM OR PAD.
- 5. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
- 6. ALL CADWELDS TO BURIED GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH SHALL BE THE TEE TYPE.
- 7. BOND SERVICE CONDUITS TO GROUND RING AS THEY CROSS. DO NOT EXOTHERMICALLY WELD TO CONDUITS.
- 8. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
- 9. THE MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 10'-0" (MAX. 15'-0").
- 10. BOND CIGBE TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 BARE, TINNED, SOLID COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD.
- 11. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND.
- 12. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.

NOTE:
CONTRACTOR TO GROUND
PROPOSED ICE BRIDGE TO
CROWN CASTLE SPECIFICATIONS



CALE: NOT TO SCALE

verizon

JURISDICTIONAL APPROVALIMINITY, M



BEDMINSTER, NI 07921

1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

1825 W. WALNUT HILL LANE, SUITE 120

BU #: **877803 KCYC LEES SUMMIT DT**207 SE DOUGLAS
LEE'S SUMMIT, MO 64063
EXISTING 180'-0" MONOPOLE

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SHEET NUMBER:

14

REVISION:

GROUNDING SYMBOLS:

ACCESS WELL

GROUND ROD WITH ACCESS

ONDESCION TYPE CONNECT

■ COMPRESSION TYPE CONNECTION

● EXOTHERMIC WELD TYPE CONNECTION

G -- #2/0 BTS COPPER CONDUCTOR

INDICATES CODED NOTE

- 1. TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO., HARGER TGBI14420M, OR EQUIVALENT. HOLE CENTERS TO MATCH
- 2. NEMA DOUBLE LUG CONFIGURATION.
- 3. INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 3061-4 OR HARGER EQUIVALENT.
- 4. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT. 5. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR HARGER
- EQUIVALENT. 6. 5/8-11"x1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR HARGER

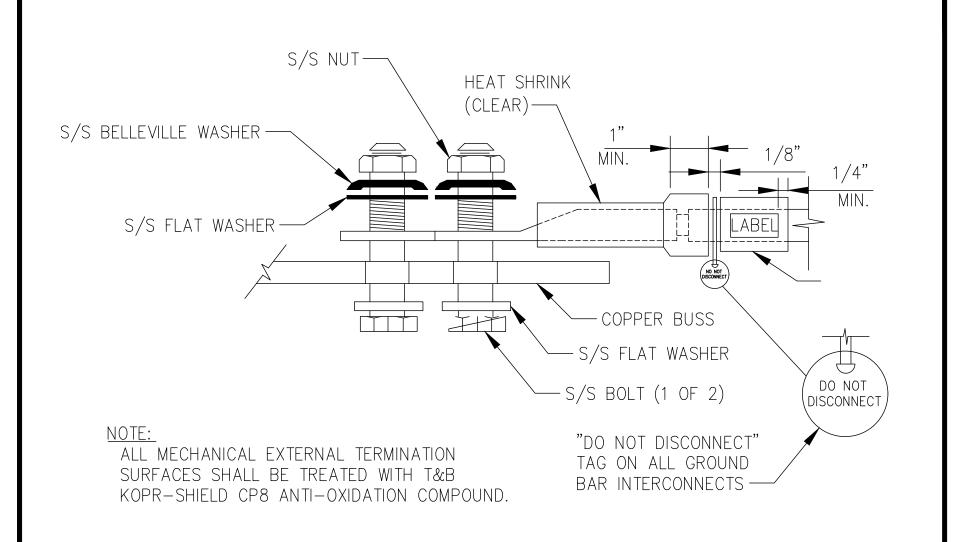
EQUIVALENT. NOIES:

1. ALL MOUNTING HARDWARE CAN ALSO BE USED ON 6", 12", 18", ETC. GROUND BARS. 2. ENTIRE ESSEMBLY AVAILABLE FROM NEWTON INSTRUMENT CO. CAT. NO. 2106060010 OF AS HARGER TGBI14420M.

TYPICAL CONNECTION OF GROUND WIRES TO GROUNDING BARS@ANTENNA

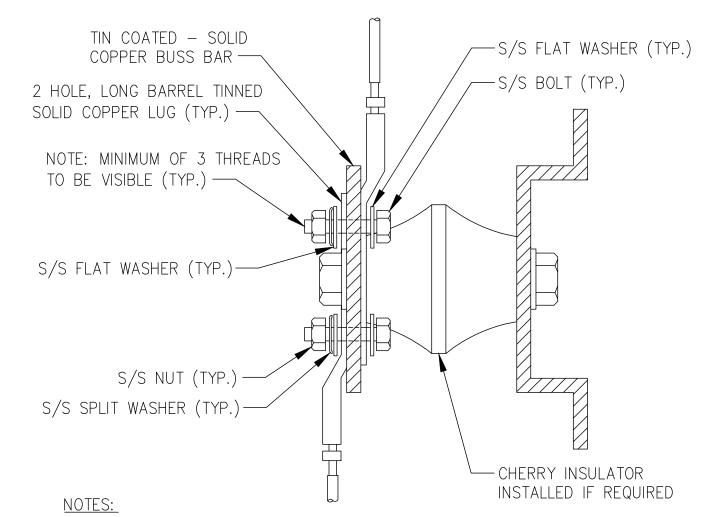
SCALE: NOT TO SCALE

TYPCAL GROUND BAR SCALE: NOT TO SCALE



TYPICAL EQUIPMENT GROUND CONNECTION (2) SCALE: NOT TO SCALE

5 TYPCAL ANTENNA GROUND BAR SCALE: NOT TO SCALE



1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS. 2. COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING. 3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS

TYPICAL GROUND LUG (3) SCALE: NOT TO SCALE

PRIOR TO MATING AND BOLTING.



JURISDICTIONAL APPROVAUmit, M





MAHWAH, NJ 07430

1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

VERIZON SITE NUMBER: **16968208**

BU #: **877803** KCYC LEES SUMMIT DT 207 SE DOUGLAS LEE'S SUMMIT, MO 64063 EXISTING 180'-0" MONOPOLE

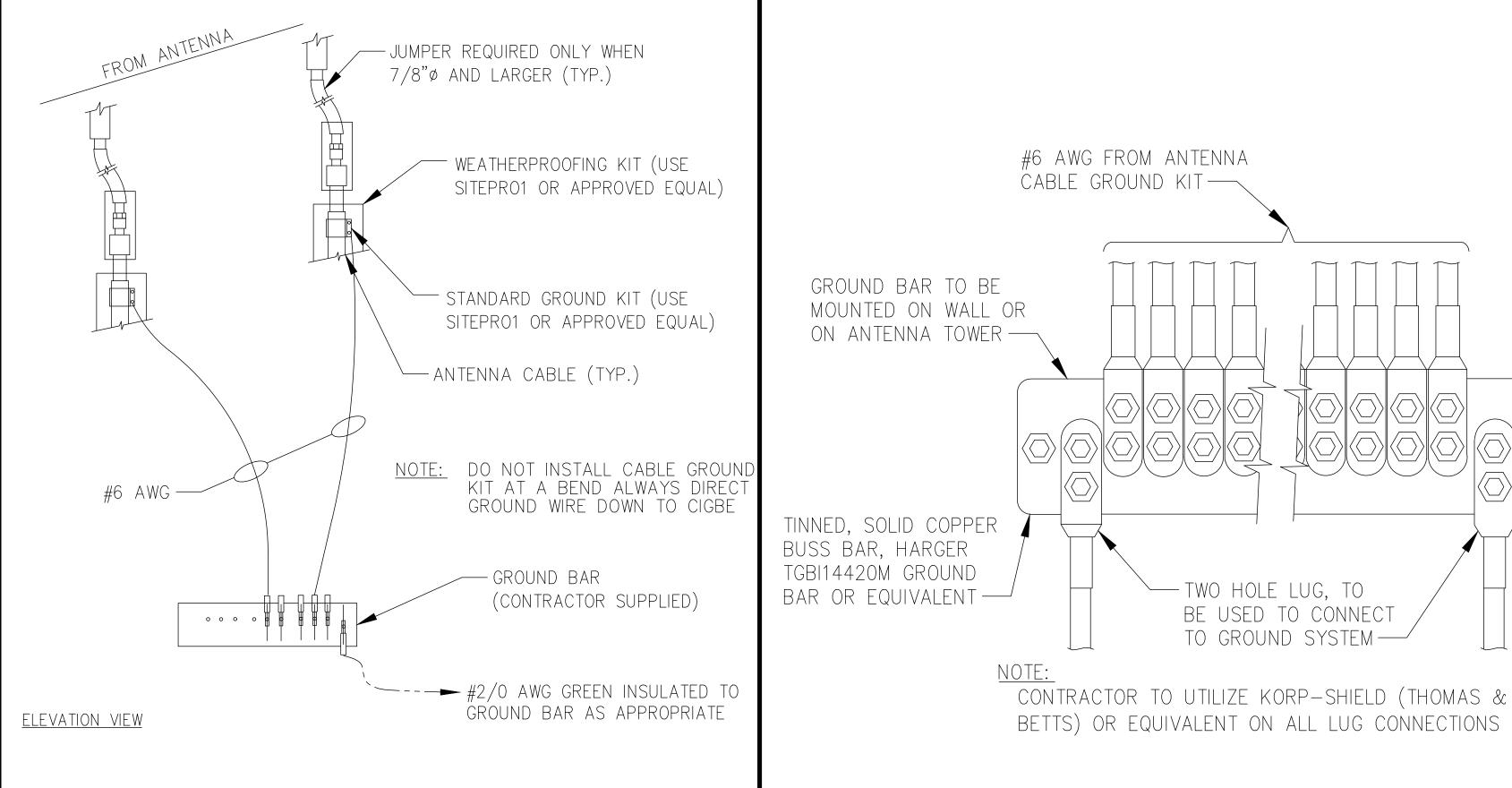
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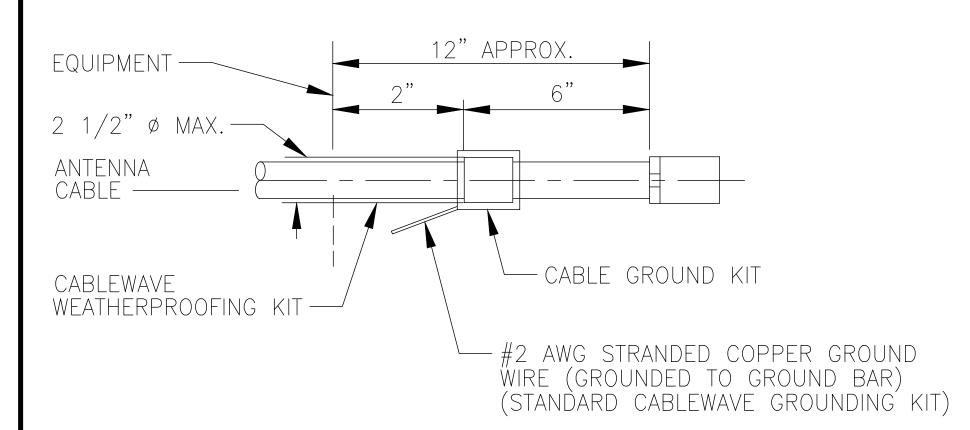


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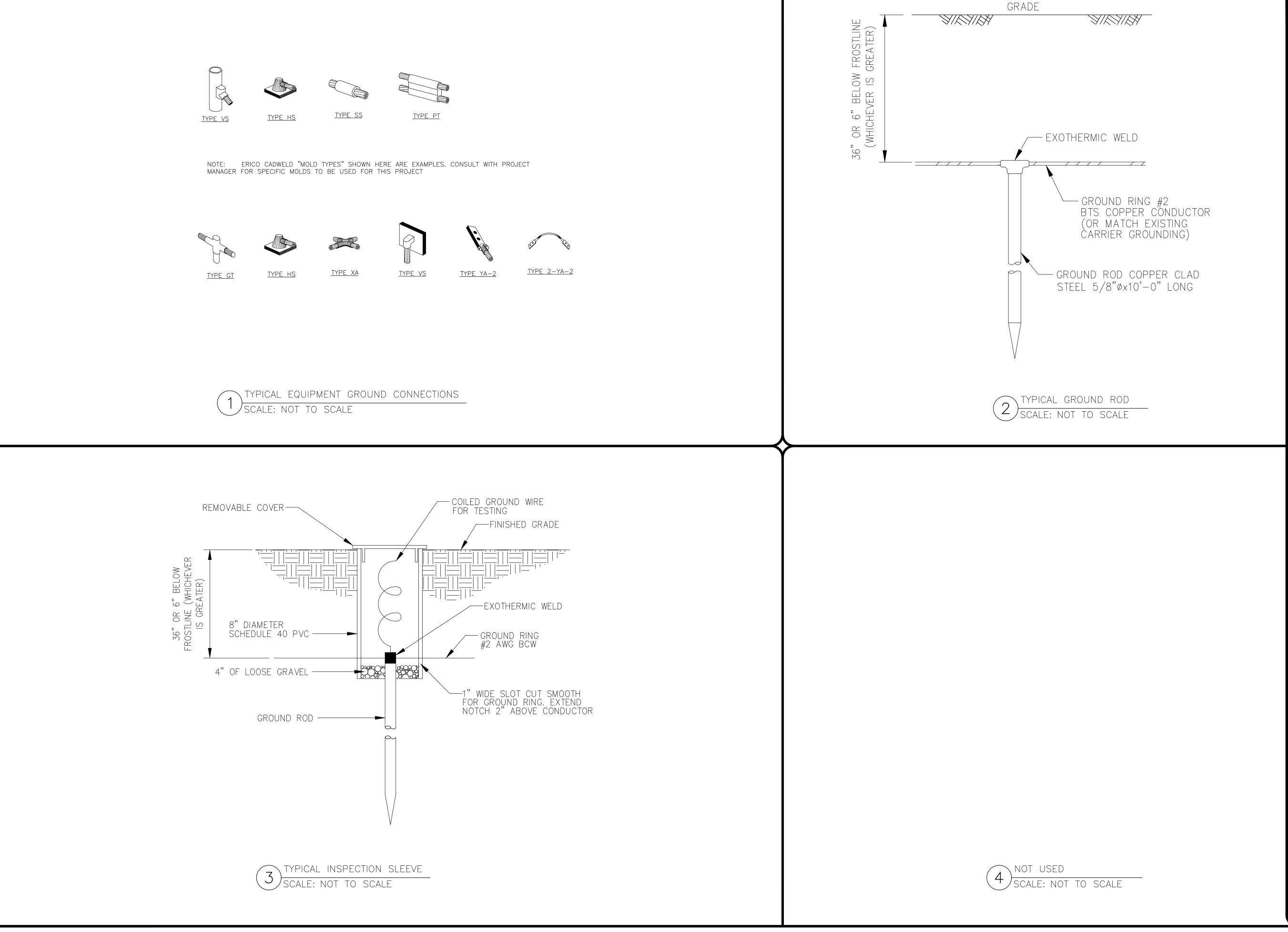




TO ANTENNA CABLE

DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

> TYPICAL CABLE GROUND KIT CONNECTION SCALE: NOT TO SCALE







JURISDICTIONAL APPROEVS Aummit, M sspuri

RELEASED FOR CONSTRUCTION As Noted on Plans Review



MAHWAH, NJ 07430



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

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SHEET NUMBER:

BUN: 877803 PROPERTY DESCRIPTION: LEASE AREA (AS PROVIDED) All that part of Lot 8, Block 17, W.B. Howards Addition, a subdivision in the city of Lee's Summit, Jackson County, Missouri described as follows: Commencing at the most Northerly corner of said Lot 8, thence South 45° East along the most Northeasterly line of said Lot 8, a distance of 4.59 feet, thence South 44° 41' 08" West parallel to the most Northwesterly line of said Lot 8, a distance of 30.00 feet to the point of beginning, thence continuing South 44° 41' 08" West, a distance of 30.00 feet, thence South 45° East a distance of 40.00 feet, thence North 44°41' 08" East, a distance of 30.00 feet, thence North 45° West, a distance of 40.00 feet to the point of beginning. City of Lee's Summit APN: 61-340-20-06-00-0-000 Deed: N/A Given under my hand and seal ______ JEFFREY B. LOVELACE MO-LS2580 DATE: ______

NOTE: LEE'S SUMMIT FIRE STATION

LEE'S SUMMIT FIRE STATION BUN: 877803

PROPERTY DESCRIPTION: NON-EXCLUSIVE ACCESS & UTILITY EASEMENT (AS SURVEYED)

A 20 foot wide Access and Utility Easement being situated in Lots 7 and 8, Block 17, WILLIAM B. HOWARD'S FIRST ADDITION TO THE CITY OF LEE'S SUMMIT, Jackson County, Missouri, lying 10.00 feet on each side of following described centerline:

COMMENCING at the most Northerly corner of said Lot 8; thence along the Northeasterly line of said Lot 8, South 28°44'45" East, a distance of 4.59 feet; thence departing said Northeasterly line, South 60°48'47" West, a distance of 47.24 feet; thence North 29°11'13" West, a distance of 10.00 feet to the POINT OF BEGINNING; thence North 60°48'47" East, a distance of 20.00 feet; thence North 29°11'13" West, a distance of 4.59 feet; thence North 60°48'47" East, a distance of 27.35 feet to the Southwesterly line of an existing Public Alley in said Block 17 and the POINT OF TERMINATION. Containing 1,039 square feet or 0.02 acres more or less.

City of Lee's Summit
APN: 61-340-20-06-00-0-000
Deed: N/A

Given under my hand and seal ______

JEFFREY B. LOVELACE
MO-LS2580

DATE: _____