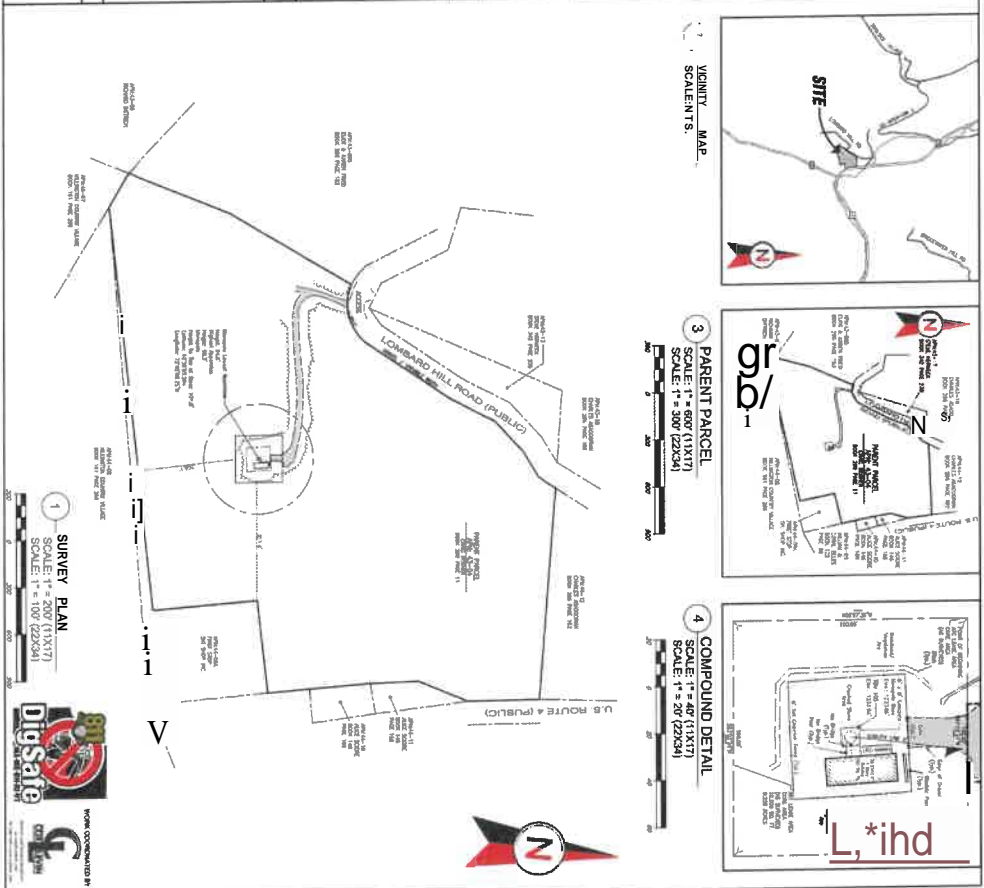


<p>PROJECT SUMMARY</p> <p>1. PROJECT LOCATION: 281 LUMBER HILL ROAD, KILLINGTON, VT 05751</p> <p>2. PROJECT DESCRIPTION: 281 LUMBER HILL ROAD, KILLINGTON, VT 05751. THE PROJECT IS A 1.5 ACRE PARCEL OF LAND WITH A 1.5 ACRE ATC LEASE AREA. THE PROJECT IS A 1.5 ACRE PARCEL OF LAND WITH A 1.5 ACRE ATC LEASE AREA.</p>	<p>SURVEYOR'S NOTES</p> <p>1. THE SURVEY WAS CONDUCTED ON 08/28/21.</p> <p>2. THE SURVEY WAS CONDUCTED BY MT. LAUREL SURVEYING, INC.</p> <p>3. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>4. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>5. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p>
<p>TITLE COMMITMENT/PARENT PARCEL LEGAL DESCRIPTION</p> <p>1. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>2. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>3. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p>	<p>ZONING INFORMATION</p> <p>1. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>2. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>3. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p>
<p>ACCESS ADJUTANT EQUIPMENT DESCRIPTION - (AS SURVEYED)</p> <p>1. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>2. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>3. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p>	<p>ATC LEASE AREA (CORE AREA) (AS-SURVEYED)</p> <p>1. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>2. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p> <p>3. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1986.</p>



1 OVERALL SITE PLAN

AMERICAN TOWER
 AMERICAN TOWER SERVICE IS, INC
 ATC TOWER SERVICE IS, INC
 3000 WINDYBROOK DRIVE
 CAROLINA, NC 27013
 PH: 704.271.1111
 FAX: 704.271.1112

MT. LAUREL SURVEYING, INC.
 2000 WINDYBROOK DRIVE
 CAROLINA, NC 27013
 PH: 704.271.1111
 FAX: 704.271.1112

ASSET NUMBER: 410015
ASSET NAME: KILLINGTON CENTER, VT (PCS) VT
 281 LUMBER HILL ROAD
 KILLINGTON, VT 05751

DATE: 08/28/21
CLIENT COMMENTS: M I

PROJECT CODE: 02
PROJECT NAME: HOLDEN BIONNATA *
 BHMH-INDO fee.
DRAWING BY: JSM
DATE DRAWN: 06/29/2017
SHEET NO.: 1/0015

AS BUILT / TITLE AND BOUNDARY SURVEY
SHEET NUMBER: V-101
REVISION: 1

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Colliers & Design Engineering
 www.colliersdesign.com
 Doing Business as **MASTR**
 MT. LAUREL
 2000 WINDYBROOK DRIVE
 CAROLINA, NC 27013
 PH: 704.271.1111
 FAX: 704.271.1112

ATC SITE NUMBER: 410015
ATC SITE NAME: KILLINGTON CENTER,
 KILLINGTON CENTER,
T-MOBILE SITE NAME: 4R V00 59
SITE ADDRESS: 281 LUMBER HILL ROAD
 KILLINGTON, VT 05751

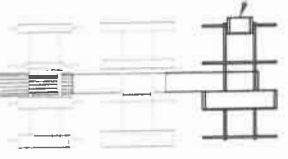
REVISION:
 REV. DESCRIPTION BY DATE
 A. FOR CONSTRUCTION JLM 08/28/21
 B. FOR CONSTRUCTION AMN 09/19/21
 C. FOR CONSTRUCTION AMN 09/29/22

OVERALL SITE PLAN
SHEET NUMBER: C-001
REVISION: 2



PROPOSED T-MOBILE
EQUIPMENT MOUNT
AND POLE EXTENSION

TOP OF EXISTING TOWER
LEV. - 109' AGL



PROPOSED T-MOBILE
RAD CENTER @ 117' AGL

EXISTING CARRIER ANTENNAS
RAD CENTER @ 108' AGL

EXISTING CARRIER ANTENNAS
RAD CENTER @ 96' AGL



EXISTING MONOPOLE

1 TOWER ELEVATION
SCALE N 1/8

PER HOUR ANALYSIS COMPLETED BY AMERICAN
TOWER CORPORATION, DATED 08/17/21. THE
PROPOSED MOUNT CAN ADEQUATELY SUPPORT
THE PROPOSED LOADING.

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE WORK. EXISTING AND PROPOSED TOWER APPEARANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS WHEN APPLICABLE. ALL NEW ANTENNAS SHALL BE PAINTED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH EXISTING ROUTING. ALL NEW CABLES SHALL EXIST, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE, IF ROLLING CUTS DIE THE MONOPOLE. ATTACH CABLES USING STRAP-OFF CABLE TIE DOWNERS TO EXISTING CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-PINS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE FLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



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& Design
Engineering

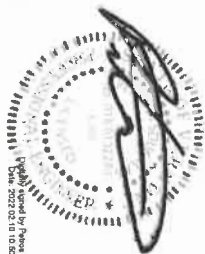
www.colliersengineering.com
Doing Business as **INSET**

MILLAUVEL
2000 Melrose Drive
Mt. Laurel, NJ 08054
Phone: 856.797.4412
Fax: 856.797.4413
COLLIERS MANAGEMENT, A COLLIERS INC. COMPANY

DATE: 08/26/21
BY: JLM
FOR CONSTRUCTION: RMD, 08/26/21
FOR CONSTRUCTION: AMN, 08/26/21
FOR CONSTRUCTION: AMN, 02/09/22

ATC SITE NUMBER:
410015
ATC SITE NAME:
KILLINGTON CENTER.
T-MOBILE SITE NAME:
4R/0059
SITE ADDRESS:
281 LUMBARD HILL RD
KILLINGTON, VT 05751

DATE DRAWN: 08/26/21
ATC JOB NO: 1627888_03
CUSTOMER ID: 4R vs 5J
CUSTOMER #: 4R/0059A

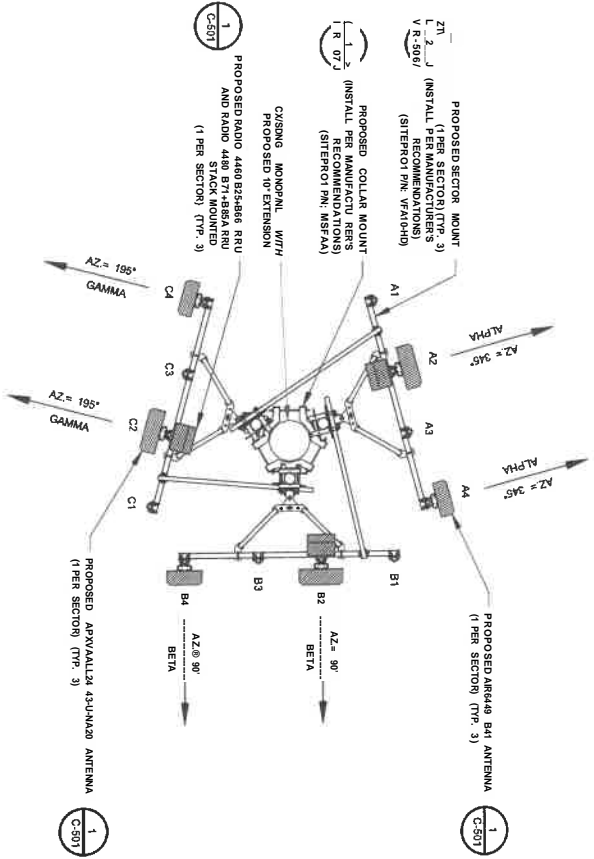


T-Mobile

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	2

PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION. DATED 08/27/21. THE PROPOSED ANTENNA IS ASSUMED TO BE SUPPORTED BY THE PROPOSED TOWER. LOADING.



1 FINAL ANTENNA PLAN
SCALE: N.T.S.

LOCATION		ANTENNA SUMMARY		NON ANTENNA SUMMARY		
SECTOR	RAD	POS	ANTENNA	MECH/ELEC D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT	DISTRIBUTION BOX / CABLING
ALPHA	112	A1	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	(2) 1.98" HV BRND
		A2	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		A3	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		A4	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
BETA	117	B1	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	(2) 1.98" HV BRND
		B2	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		B3	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		B4	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
GAMMA	112	G1	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	(2) 1.98" HV BRND
		G2	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		G3	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	
		G4	APVVAAL124 43-U-M420	0°	RADIO 4460 B25-4866 RADIO 4460 B71+855A	

1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE REVISIONS AND MOST RECENT RFRS FOR NSN CONFIGURATION (CONFIG. GC TO CAP ALL UNUSED PORTS).
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONNECTS NOR IMPERE TOWER CLIMBING REGS.

2 ANTENNA SCHEDULE

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com
Doing Business as: Ameri

MT. LABEL
2000 Industrial Drive
Mt. Label, VT 05704
Phone: 866.797.0412
www.ameriantower.com
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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	J.L.K.	08/26/21
2	FOR CONSTRUCTION	AMM	09/13/21
3	FOR CONSTRUCTION	AMM	02/09/22

ATC SITE NUMBER:
410015

AGC SITE NAME:
KILLINGTON CENTER,

T-MOBILE SITE NAME:
4R1/0059

SITE ADDRESS:
281 MILLBANK RD
MILLINGTON, VT 05751

SEAL:



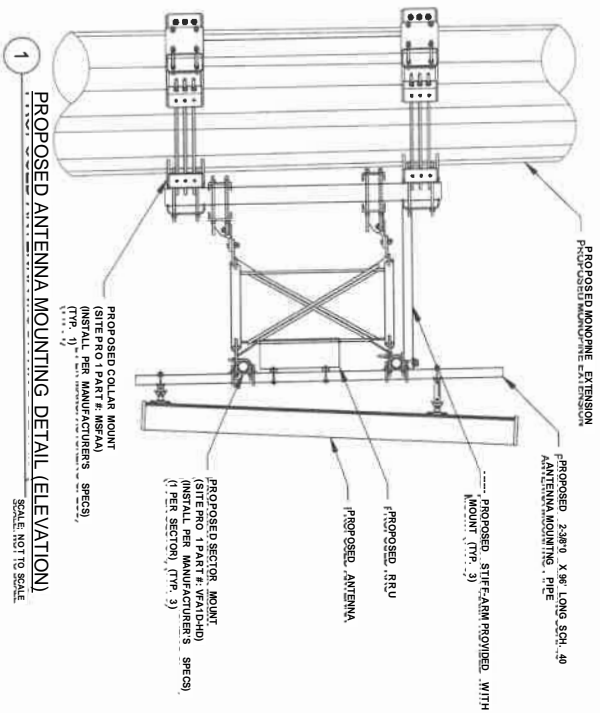
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DATE DRAWN: 08/26/21
ATC JOB NO: 1374400_D3
CUSTOMER ID: 4R1/0059
CUSTOMER #: 4R1/0059A

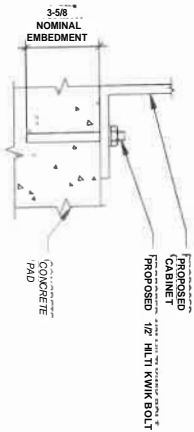
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:
C-401

REVISION:
2



1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)
SCALE: NOT TO SCALE



2 CABINET ATTACHMENT DETAIL
SCALE: NOT TO SCALE

NOTE:
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER
INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR
FOUND ONLINE AT WWW.US.HILTI.COM. PROPER
INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

AMERICAN TOWER
Engineering & Design
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3500 Mt. Mansfield Ave.
2000 Medical Drive
Mt. Lebanon 15084
Call: (724) 838-7979 Fax: (724) 838-7979
Coll: (724) 838-7979
www.colliersengineering.com

REV.	DESCRIPTION	BY	DATE
1	PRELIM	JLK	08/28/21
2	FOR CONSTRUCTION	HMT	08/28/21
3	FOR CONSTRUCTION	RMD	08/30/21
4	FOR CONSTRUCTION	AMN	09/13/21

ATC SITE NUMBER: 410015
ATC SITE NAME: KILLINGTON CENTER
T-MOBILE SITE NAME: 4R/V0059
SITE ADDRESS: 281 LUMBAR HILL RD
MILLINGTON, VT 05751



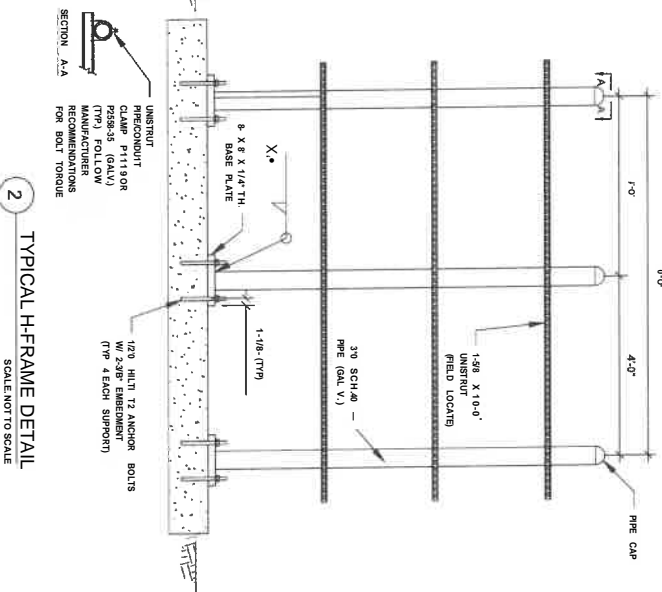
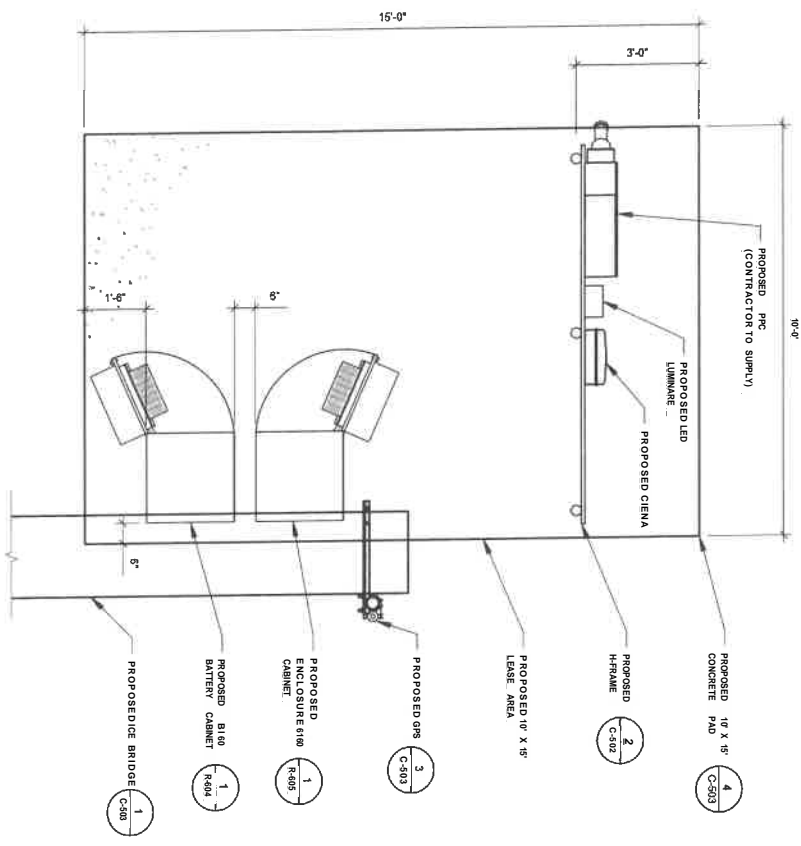
T-Mobile

DATE DRAWN: 08/28/21
DATE DESIGNED: 08/28/21
ATC JOB NO.: 1371495_03
CUSTOMER D#: 4R/V0059
CUSTOMER #1: 4R/V0059A

CONSTRUCTION DETAILS
SHEET NUMBER: C-501
REVISION: 2

NOTE:
 1. CABINETS SHALL BE ORIENTED AND INSTALLED EXACTLY AS SHOWN
 2. WEIGHT OF BATTERY IS 1,500 LBS (WEIGHT IS WITHOUT EQUIPMENT)

1 DETAILED EQUIPMENT LAYOUT
 SCALE: NOT TO SCALE



2 TYPICAL H-FRAME DETAIL
 SCALE: NOT TO SCALE

- H-FRAME NOTES:**
- IF FITS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
 - PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST.
 - SPRAY ENDS OF UNISTRUT WITH COOL GALVANIZING SPRAY PAINT. ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
 - UNISTRUT TO BE CUT FUSH WITH NO SHARP OR JAGGED EDGES.
 - ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURERS SPECS.



Collins & Design
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www.collinsengineering.com
 Business as 3rd FLOOR

2000 Marietta Drive
 M. Suite 100
 Atlanta, GA 30328
 Phone: 588.797.0412
 Fax: 588.797.0413

DATE: 08/20/12
 DRAWN BY: J.L.K.
 CHECKED BY: J.L.K.
 FOR CONSTRUCTION: AMN_091921
 FOR CONSTRUCTION: AMN_02/09/22

ATC SITE NUMBER: 410015
 ATC SITE NAME: KILLINGTON CENTER,
 KILLINGTON CENTER,
 KILLINGTON, VT 05751

MOBILE SITE NAME: 4R/V0059
 SITE ADDRESS: 281 LONDON HILL LANE
 KILLINGTON, VT 05751

DATE DRAWN: 08/20/12
 ATC JOB NO.: 13714-005-03
 CUSTOMER ID: 2
 CUSTOMER #: 4R/V0059A

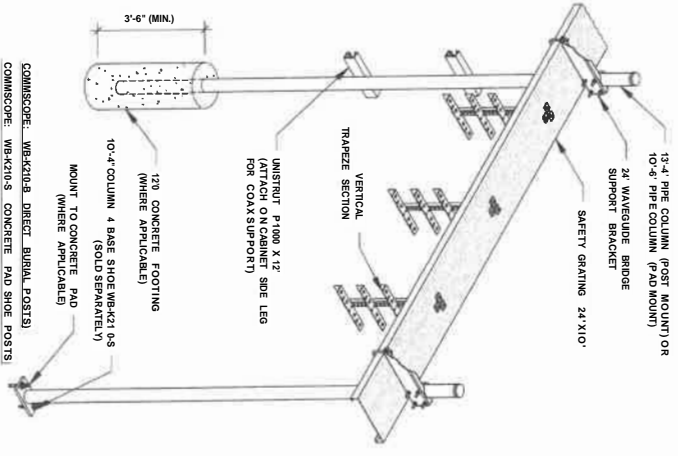
CONSTRUCTION DETAILS

SHEET NUMBER: C-502
 REVISION: 2



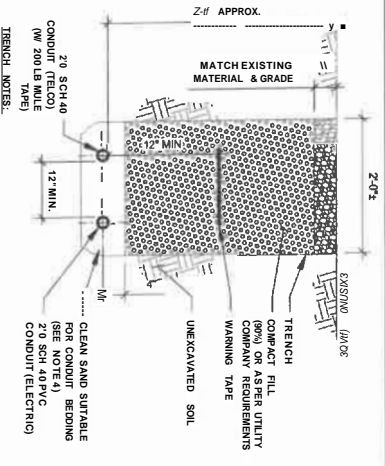
T-Mobile*

AMERICAN TOWER logo
 Collins & Design logo
 www.collinsengineering.com
 Business as 3rd FLOOR
 2000 Marietta Drive
 M. Suite 100
 Atlanta, GA 30328
 Phone: 588.797.0412
 Fax: 588.797.0413
 DATE: 08/20/12
 DRAWN BY: J.L.K.
 CHECKED BY: J.L.K.
 FOR CONSTRUCTION: AMN_091921
 FOR CONSTRUCTION: AMN_02/09/22
 ATC SITE NUMBER: 410015
 ATC SITE NAME: KILLINGTON CENTER,
 KILLINGTON CENTER,
 KILLINGTON, VT 05751
 MOBILE SITE NAME: 4R/V0059
 SITE ADDRESS: 281 LONDON HILL LANE
 KILLINGTON, VT 05751
 DATE DRAWN: 08/20/12
 ATC JOB NO.: 13714-005-03
 CUSTOMER ID: 2
 CUSTOMER #: 4R/V0059A
 CONSTRUCTION DETAILS
 SHEET NUMBER: C-502
 REVISION: 2



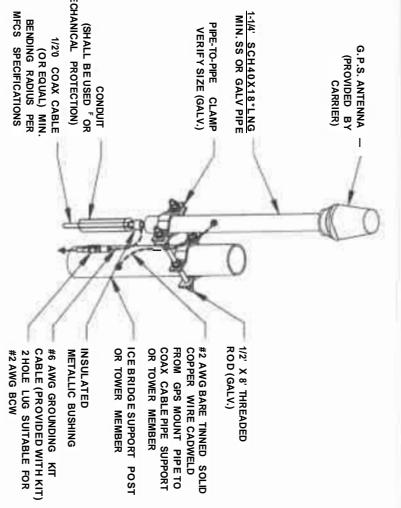
- CONSTRUCTION NOTE:
1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
 2. INSTALL PERMANUFACTURER'S SPECIFICATION.

1 WAVEGUIDE BRIDGE KIT
SCALE: NOT TO SCALE



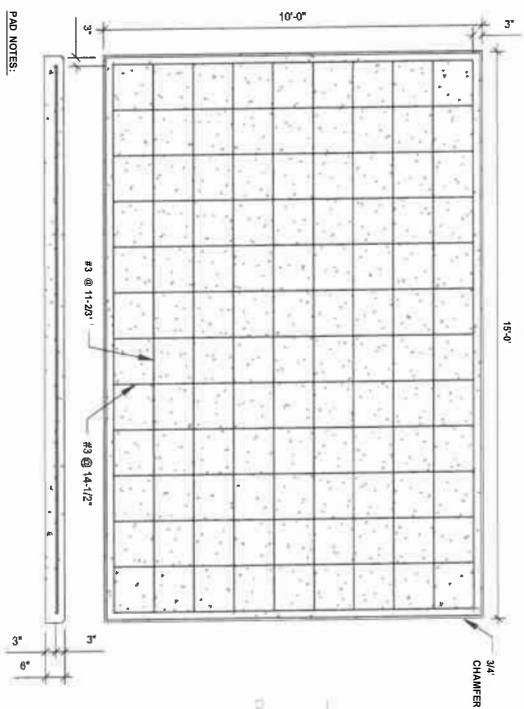
- TRENCH NOTES:
1. IF FREE OF ORGANIC OR OTHER DELETTERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
 2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL, COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS FROM TOP BACKFILLING CONTRACTOR TO TERRACE LOCATION OR EXISTING SURF UTILITIES PRIOR TO DIGGING.
 3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG/TRENCHING.
 4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.

2 TELCO AND POWER CONDUIT JOINT TRENCH
SCALE: N.T.S.



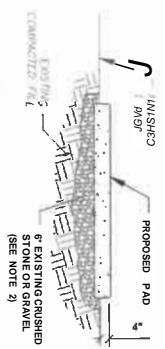
- NOTE:
1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
 2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

3 GPS ANTENNA ATTACHMENT DETAIL
SCALE: NOT TO SCALE



- PAD NOTES:
1. PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
 2. REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G402 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.

4 REINFORCED PAD LAYOUT
SCALE: HOT TO SCALE



- PAD NOTES:
1. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL, DELETTERIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
 2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
 3. USE GALVANIZED HULI EXPANSION ANCHORS OR APPROVED EQUAL FOR EQUIPMENT ANCHORAGE.
 4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

5 GRAVEL PREPARATION
SCALE: NOT TO SCALE

AMERICAN TOWER

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as L WISER

MT. LAUREL, NJ

2000 Maratic Drive, Suite 100, 08054

Phone: 856.797.0412

Fax: 856.797.0412

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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ELM	08/29/21
2	FOR CONSTRUCTION	AMN	09/13/21
3	FOR CONSTRUCTION	AMN	02/09/22

ATC SITE NUMBER: 410015

ATC SITE NAME: KILLINGTON CENTER,

MOBILE SITE NAME: 4R/V0059

SITE ADDRESS: 281 LUMBER HILL RD, KILLINGTON, VT 05151



T-Mobile

DATE DRAWN: 08/26/21

ATC JOB NO.: 13714505_03

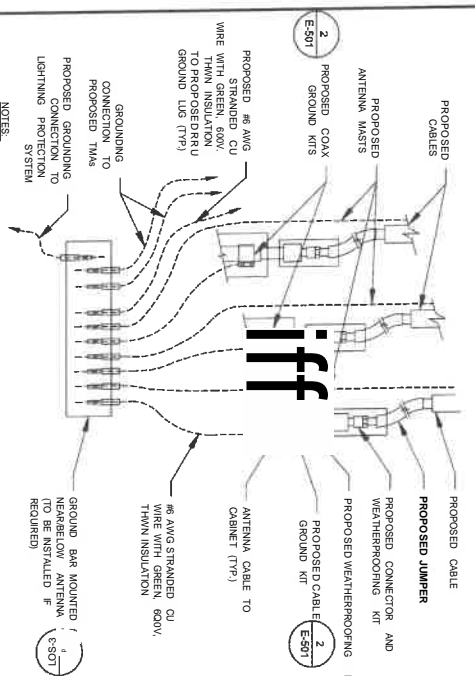
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CUSTOMER #: 4R/V0059A

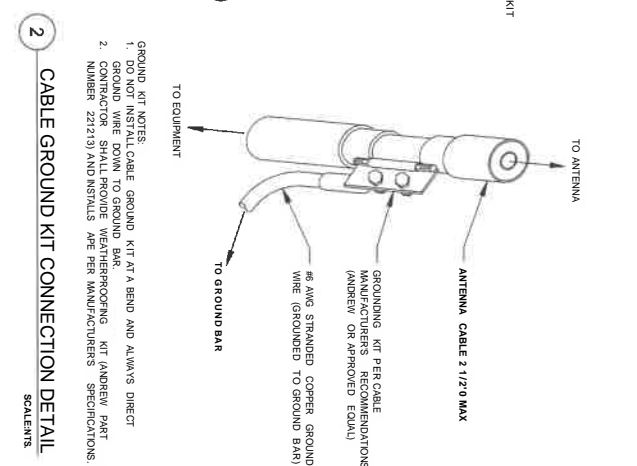
CONSTRUCTION DETAILS

SHEET NUMBER: C-503

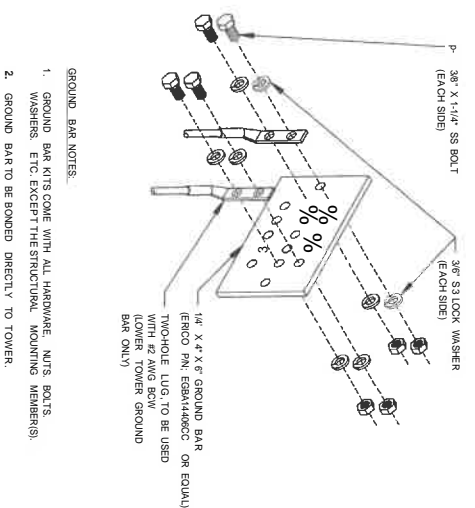
REVISION: 2



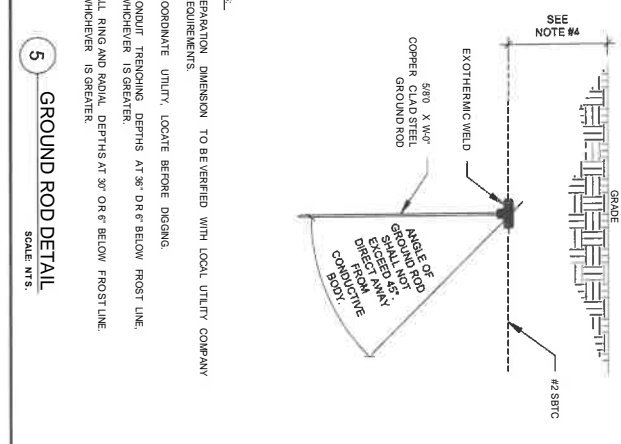
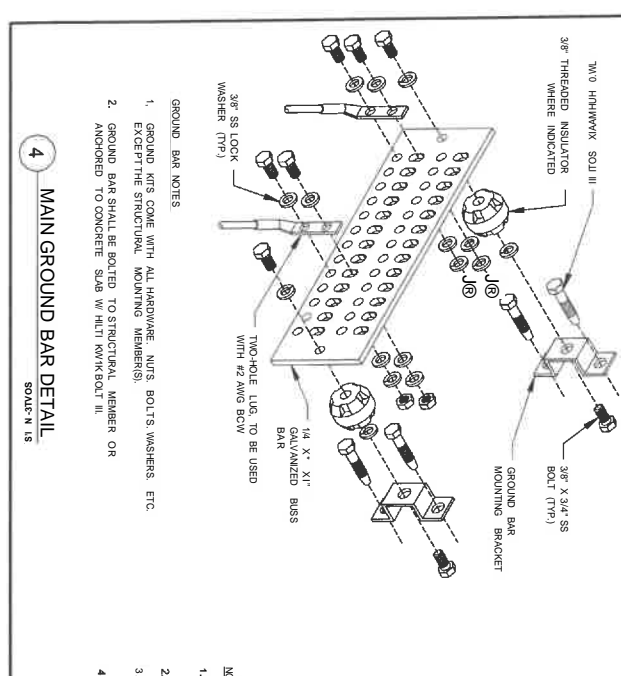
- NOTES:
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SIGHT VISUAL CHECKS AND FIELD MEASUREMENTS SHOULD BE MADE BY THE CONTRACTOR. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS. LATEST EDITION, AND COMPLY WITH FLEXIBLE GROUNDING CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT. THIS SHALL GOVERN.



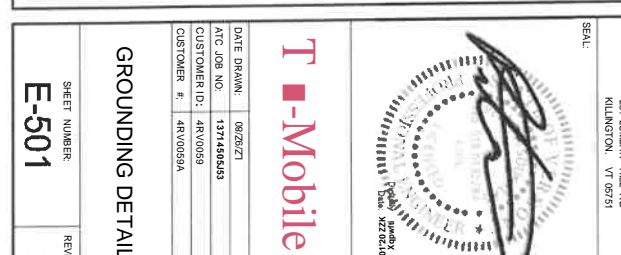
- GROUND KIT NOTES:
1. GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALLS ARE PER MANUFACTURERS SPECIFICATIONS.



- GROUND BAR NOTES:
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBERS.
 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.



- NOTES:
1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY RECOMMENDATIONS.
 2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
 3. CONDUIT BENDING DEPTHS AT 36" DR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
 4. ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.



AMERICAN TOWER

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as MASER

2000 Melrose Drive,
Mt. Laurel, NJ 08054
Phone: 856.777.0412
Fax: 856.777.0412

ATC SITE NUMBER:
410015

ATC SITE NAME:
KILLINGTON CENTER,

T-MOBILE SITE NAME:
4R/V0059

SITE ADDRESS:
261 LINBURG FIELD RD
KILLINGTON, VT 05751

DATE DRAWN: 06/26/21

ATC JOB NO.: 1371450593

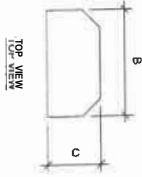
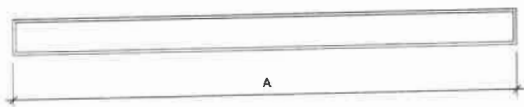
CUSTOMER ID: 4R/V0059

CUSTOMER #: 4R/V0059A

T-Mobile

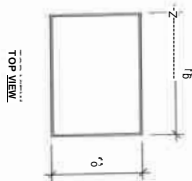
SHEET NUMBER: **E-501**

REVISION: **2**



1 ANTENNA SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA MODEL		ANTENNA SPECIFICATIONS			WEIGHT (LBS)
ANTENNA MODEL	ANTENNA MODEL	A	B	C	(LBS)
AP02V4A1124 240144828	AP02V4A1124 240144828	9.6"	4.4"	8.9"	122.6
AIR5448 B41	AIR5448 B41	33.1"	20.0"	8.9"	711.0



2 RRU SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

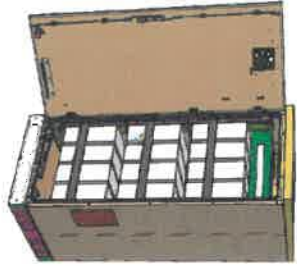
RRU MODEL		RRU SPECIFICATIONS			WEIGHT (LBS)
RRU MODEL	RRU MODEL	A	B	C	(LBS)
4480	4480	19.6"	15.7"	12.1"	108.0
4480	4480	21.1"	15.7"	7.5"	84.0

SUPPLEMENTAL
SUPPLEMENTAL

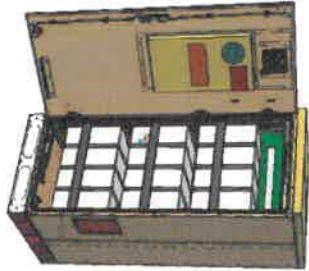
SHEET NUMBER:
R-603

REVISION:
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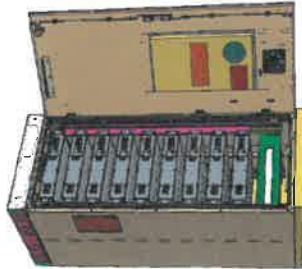
Enclosure B160



Enclosure B160
AICon + VRLA



Enclosure B160
AICon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Part: 31WZ131 | Ersatz-Gehäuse / Page 1

Enclosure B160

Capacity		Environmental specification	
— VRLA 12V:	100Ah / 150Ah / 170Ah / 190Ah / 210Ah	— Ingress protection:	VRLA/Sodium/P44
— Udon:	24U19"/23"	— Relative humidity:	Lham IP55
— Sodium-Nickel:	SxR/AMM	— Climate system:	15-100%
Electrical specification		— Air Conditioner	
— DCCOutput:	-48VDC/200A	— Fan type:	DC
— Battery breakers:	2x252p	— Cooling capacity:	500W@L3SL35
— Alarms:	Door open, Climate failure, MCB Connection	— Convection cooling	
Mechanical specification		— Emergency fan	
— Weight:	134kg		
— Dimensions:	63 x 26 x 26in. (incl. Base frame)		
— Base frame height:	6 in.		
— Material:	Galvanized steel (IBgfm 3)		
— Color:	Powder paint NCS2002-B		
— Door:	Front access		
— Locking type:	Padlock/cylinder		

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SUPPLEMENTAL

SHEET NUMBER: R-604

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Enclosure 6160 AC

The Enclosure 6100 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, U Ion battery, and 3PP vendor equipment. It also provides a highly capable power system and battery back up all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

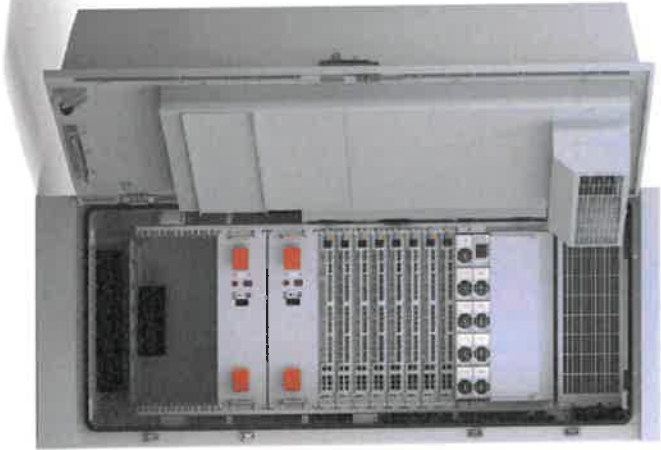
Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modularizing or saving sites or in greentfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) drive system the Enclosure 6160 ensures optimal environmental protection of the active equipment, enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31.5kW of power in total and provides 24kW of 48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6100 is its default tray, short with EIM, allowing for advanced remote monitoring and control such as start management (start), inventory management and performance measurement. The cabinet also provides an open OS X interface for interaction to the (VM) systems.



Preliminary technical specification for Enclosure 6160 AC

CAPACITY

Rack space user equipment

19U (19" rack)

Hardware capabilities

Power and CPRI support for multi-standards; remote radios (RRU or AIR)
FRS Baseband and Transport units
Lithium batteries
3PP equipment

Additional power feed available as option

MECHANICAL SPECIFICATION

Weight

145 Kg (excluding active equipment)
320 lbs (excluding active equipment)

Dimension (H x W x D)

600 x 650 x 650 mm (incl. Base frame)
63 x 26 x 26 in. (incl. Base frame)

Base frame height

150 mm
6 in.

Mounting position

Ground

Enclosure material

Aluminium

Door

Power panel NCS 2002-8

Doors

Front access
19" (ECC8293-3-100)

Locking type

Pad lock or Cylinder

POWER SYSTEM

Input voltage

3F-N+PE: 346/230-4 15/240 VAC
3F-N+PE: 208/120-220/127 VAC
1F-N+PE: 200-250 VAC

Input power

<33kW

Output load (-48VDC)

24kW

Total capacity (-48VDC)

31.5kW

AC SPG

Class 27Type 2

DCSPD

Class 27Type 2

PSU Sites

9x

Service outlet

Optional
8x Circuit Breaker

Priority load

8x Circuit Breaker

LIVD1

6x Circuit Breaker

UV D ?

3A/5A/ 10A/15A/20A/25A/30A/40A/60A/80A/100A

Battery Interface

2x Circuit Breaker

Battery Circuit Breaker rating

125A 2pol (200A)

PSU capacity:

3500W

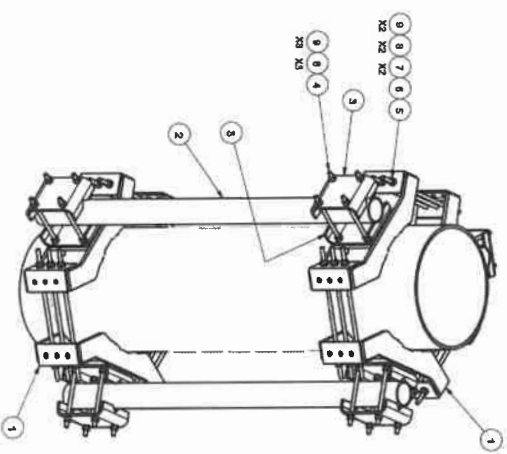
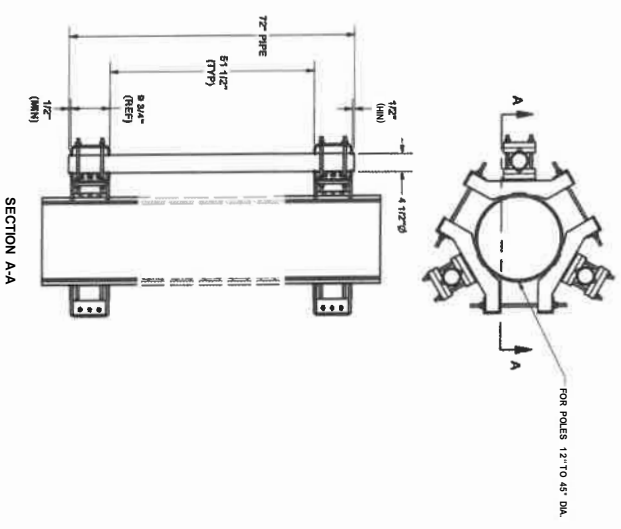
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9 of 27 ELEMENTAL

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REVISION: -

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT	NET WT
16	3	X4WRM	RING MOUNT WELDMENT	72 in	64.86	194.58
3	12	P-472	4-1/2" X 7/8" SCH. 40 GALVANIZED BENT PLATE YKAMP	12.98 in	11.43	137.16
2	12	X-21430	W/ 1/4" THREADED ROD (HOLE)	48 in	0.40	4.92
4	24	Q888-14	W/ 1/4" THREADED ROD (HOLE)	24 in	.55	13.20
6	16	Q888-16	W/ 3/8" THREADED ROD (HOLE)	24 in	.55	13.20
10	16	Q881F23	W/ 3/8" THREADED ROD (HOLE)	24 in	.55	13.20
1	36	Q881F23	SHEAR PIN ASSEMBLY		0.03	1.08
1	36	Q881F23	SPR. LOCK ASSEMBLY		0.03	1.08
9	108	ASBNT	SP. ROD ASSEMBLY		0.03	3.24
TOTAL WT. ±					133.28	246.24



TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE:
 DRILLED AND SAWS CUT HOLES (MM) .0005
 LASER CUT EDGES AND HOLES (MM) .0005
 ALL OTHER MACHING (1/4) .0007
 ALL OTHER ASSEMBLY (1/4) .0007

DRAWING		PART NO.	
MONOPOLE SECTOR FRAME ATTACHMENT ASSEMBLY		MSFAA	
DESIGNED BY	CHKD BY	DATE	REV
KCB	BMC	3/18/2016	01
DRAWING USED BY	CUSTOMER	DATE	REV
01	MSFAA	5/2/2016	01

1 COLLAR MOUNT SPECIFICATIONS

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SUPPLEMENTAL	
SHEET NUMBER: R-607	REVISION: -