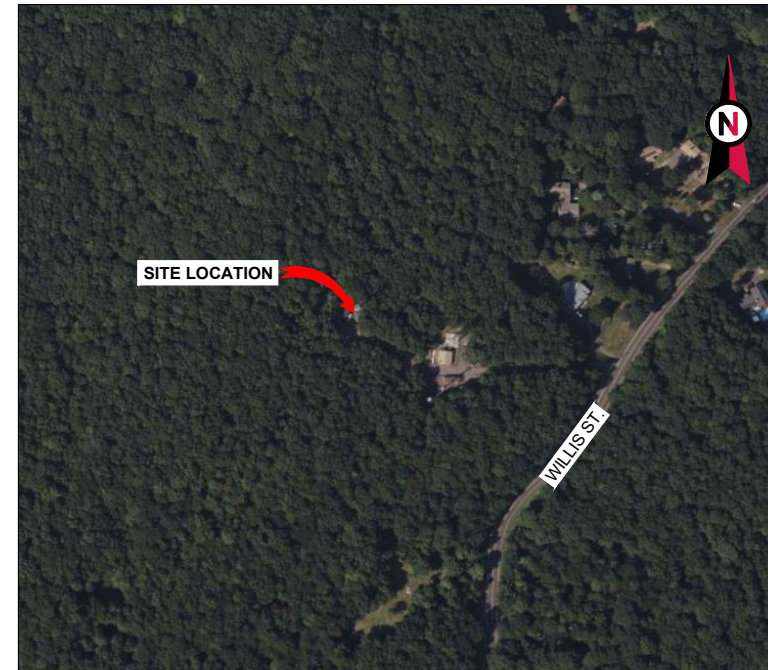


VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: BRST - BRISTOL  
 ATC SITE NUMBER: 302500  
 VERIZON SITE NAME: BRISTOL SW CT  
 VERIZON SITE NUMBER: 5000917346 (780529)  
 VERIZON FUZE PID: 17060569  
 SITE ADDRESS: 790 WILLIS STREET  
 BRISTOL, CT 06010-7269



LOCATION MAP



**Dewberry®**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.695.3400  
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
B	PRELIM	VL	08/30/23
0	FINAL	VL	12/21/23
1	FINAL	VL	01/22/24

ATC SITE NUMBER:  
 302500  
 ATC SITE NAME:  
 BRST - BRISTOL  
 VERIZON SITE NAME:  
 BRISTOL SW CT  
 SITE ADDRESS:  
 790 WILLIS STREET  
 BRISTOL, CT 06010-7269



**VERIZON COLLOCATION PLAN**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
			SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  1. 2022 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2021 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 790 WILLIS STREET BRISTOL, CT 06010-7269 COUNTY: HARTFORD  <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.64909486 LONGITUDE: -72.94801487 GROUND ELEVATION: 1034' AMSL	THE PROPOSED PROJECT INCLUDES PLACING EQUIPMENT CABINETS ON A PROPOSED CONCRETE PAD INSIDE A 12'x30' (360 SQ FT) GROUND SPACE WITHIN THE EXISTING COMPOUND, AND PLACING NEW ANTENNAS ON PROPOSED SECTOR FRAMES MOUNTED TO THE EXISTING TOWER.  <u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	1	01/22/24	VL
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> DEWBERRY ENGINEERS INC. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310  <u>PROPERTY OWNER:</u> THE CONNECTICUT LIGHT AND POWER CO 790 WILLIS STREET BRISTOL, CT 06010-7269		<u>APPLICANT:</u> VERIZON WIRELESS 51 ALDER STREET MEDWAY, MA 02053	G-002	GENERAL NOTES	1	01/22/24
<u>UTILITY COMPANIES</u>  POWER COMPANY: UNKNOWN PHONE: N/A  TELEPHONE COMPANY: UNKNOWN PHONE: N/A		<u>PROJECT LOCATION DIRECTIONS</u>  FROM HARTFORD TAKE I-84 WEST TO RT 72 WEST. FOLLOW TO END. GO STRAIGHT AT END OF RAMP AND AT NEXT STREET TAKE A RIGHT. GO STRAIGHT FOR A FEW MILES UNTIL MEMORIAL SCHOOL IS ON RIGHT. AT THIS INTERSECTION TURN RIGHT ON WILLIS. GO UP HILL TO TOP, ACCESS ROAD IS JUST AFTER # 760.	C-001	OVERALL SITE PLAN	1	01/22/24	VL
			C-101	DETAILED SITE PLAN	1	01/22/24	VL
			C-201	TOWER ELEVATION	1	01/22/24	VL
			C-401	ANTENNA INFORMATION & SCHEDULE	1	01/22/24	VL
			C-501	MOUNT DETAILS	1	01/22/24	VL
			C-502	CONSTRUCTION DETAILS	1	01/22/24	VL
			C-503	CONSTRUCTION DETAILS	1	01/22/24	VL
			C-504	CONSTRUCTION DETAILS	1	01/22/24	VL
			C-505	CONSTRUCTION DETAILS	1	01/22/24	VL
			E-101	GROUNDING PLAN & NOTES	1	01/22/24	VL
			E-102	ONE-LINE & PANEL SCHEDULE	1	01/22/24	VL
			E-501	GROUNDING DETAILS	1	01/22/24	VL
			E-502	GROUNDING DETAILS	1	01/22/24	VL
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			R-603	SUPPLEMENTAL			



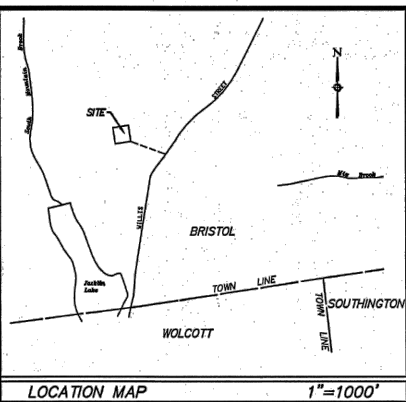
ATC JOB NO: 14430738\_G2  
 CUSTOMER ID: BRISTOL SW CT  
 CUSTOMER #: 5000917346 (780529)

**TITLE SHEET**

SHEET NUMBER:  
**G-001**  
 REVISION:  
**1**







# BRISTOL CT-0036

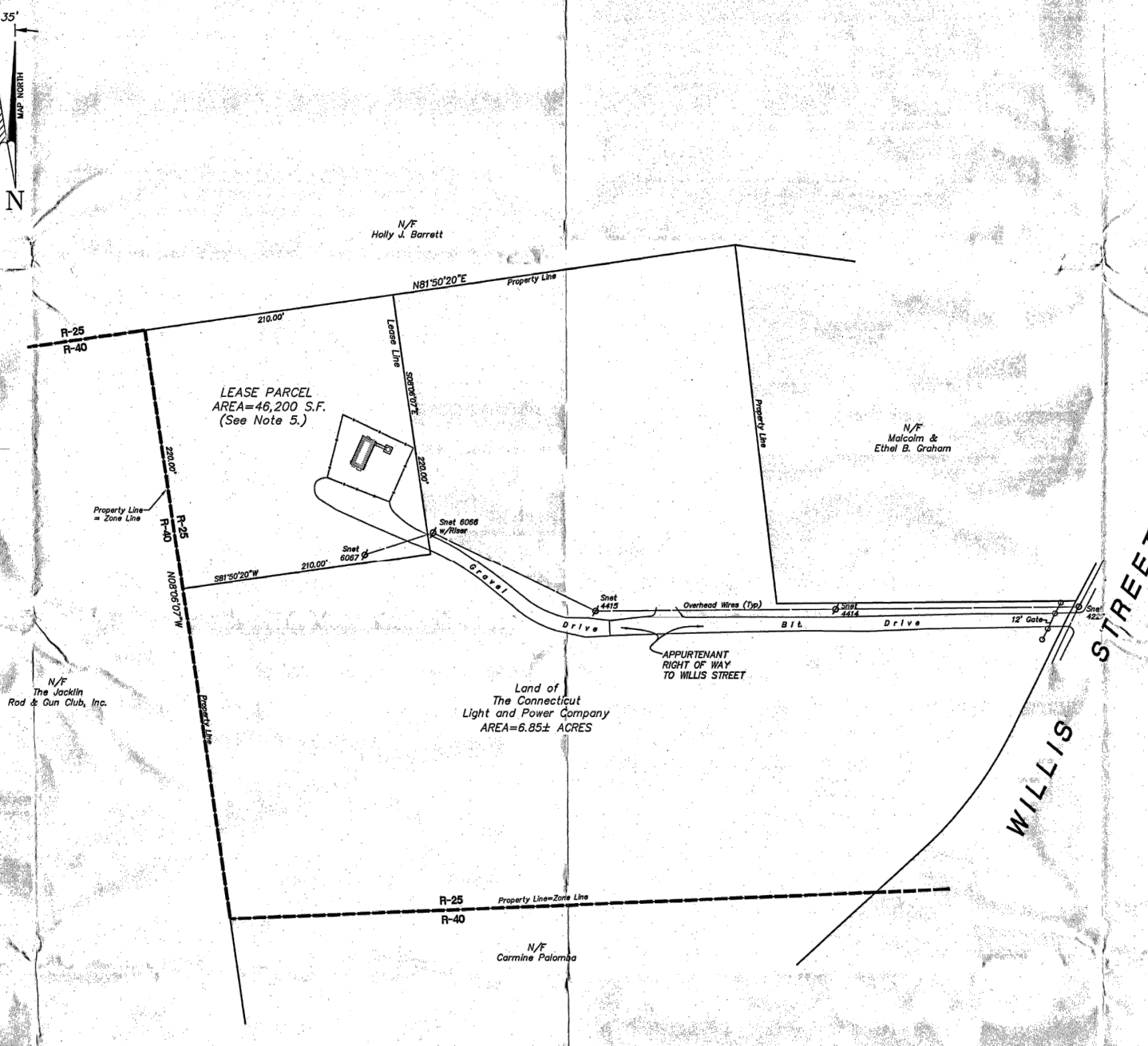
**PARENT PARCEL LEGAL DESCRIPTION**  
That certain parcel of land in the Town of Bristol, County of Hartford and State of Connecticut, more particularly bounded and described as follows:  
Beginning at an iron pin on the westerly side of Willis Street at the southeasterly corner of land of Olive J.B. Plumb; thence westerly in a straight line, which line forms an interior angle of 62° 34' 30" with the westerly line of Willis Street along the southerly line of land of Olive J.B. Plumb, 250.30 feet to an iron pin; thence at an interior angle of 283° 58' and running northerly in a straight line along the westerly line of Olive J.B. Plumb 303.21 feet to an iron pin, located in the southerly line of Richard C. Barrett; thence at an interior angle of 88° 22' and running westerly in a straight line along land of Richard C. Barrett 500 feet to an iron pin located in the southerly line of Richard C. Barrett; thence at an interior angle of 90° and running southerly in a straight line along land of Carmine Palomba 500 feet to an iron pin; thence at an interior angle of 85° 46' 30" and running in an easterly direction in a straight line 541.68 feet to an iron pin, located on the westerly line of Willis Street; thence at an interior angle of 140° 8' in a southeasterly direction along the westerly line of Willis Street, 48.73 feet to a highway monument; thence continuing along the westerly side of Willis Street by a curved line having a radius of 345.17 feet, 123.22 feet to a highway monument; thence continuing along the westerly line of said Willis Street 97.27 feet to another highway monument; thence continuing along the westerly line of Willis Street by a curved line, having a radius of 1144.23 feet, 23.80 feet to an iron pin at the point or place of beginning, bounded.

**EASTERLY on Willis Street, 302.02 feet on land of Olive J.B. Plumb, 303.21 feet SOUTHERLY on land of Carmine Palomba, 541.68 feet WESTERLY on land of Carmine Palomba, 500 feet NORTHERLY on land of Richard C. Barrett, 500 feet and Olive J.B. Plumb, 250.30 feet.**

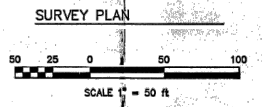
**LEASE AREA LEGAL DESCRIPTION**  
Beginning at an iron pin marking the northwesterly corner of the parent parcel and the herein described Lease Parcel; thence running North 81° 50' 20" East, 210.00 feet along land now or formerly of Holly J. Barrett; thence running South 08° 08' 07" East, 220.00 feet and South 81° 50' 20" West, 210.00 feet through land of the Lessee; thence running North 08° 08' 07" West, 220.00 feet along land now or formerly of the Jacklin Rod & Gun Club, Inc. to the point and place of beginning.

**ACCESS EASEMENT LEGAL DESCRIPTION**  
The appurtenant right of way providing access to the site begins on the westerly side of Willis Street south of SNET utility side 4222 and runs westerly and northwesterly along an existing driveway to the southeasterly corner of the above described Lease Parcel.

**ACCESS NOTE**  
This site is accessible from Willis Street. Head westerly on a 12 foot wide paved and gravel driveway (11 foot at narrowest point) for approximately 630 feet.



**LEGEND**

**NOTES:**

- DEWBERRY HAS NOT BEEN CONTRACTED TO PERFORM AN BOUNDARY AND TOPOGRAPHIC SURVEY AT THIS SITE.
- SURVEY INFORMATION OBTAINED FROM SURVEY PROVIDED BY ATC, PREPARED FOR SPECTRASITE COMMUNICATIONS, ON 01/28/03.

- NOTES:**
- THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 28, 1998. THE TYPE OF SURVEY IS A PROPERTY SURVEY AND A T-2 TOPOGRAPHIC SURVEY. THE BOUNDARY DETERMINATION CATEGORY IS A RESURVEY. THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY.
  - BEARINGS REFER TO THE CONNECTICUT COORDINATE SYSTEM (NAD 83) ESTABLISHED WITH GPS.
  - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 BASED UPON CGS MONUMENT 1508.
  - REFERENCE IS MADE TO THE FOLLOWING MAPS:
    - PORTION OF PROPERTY OF CARMINE PALOMBA WILLIS STREET BRISTOL, CONN., BY A.H. BACON, SCALE 1"=50', DATED MARCH 1945.
    - "PLAN OF WOLCOTT TERMINAL SITE ON WILLIS ST. TOWN OF BRISTOL", BY THE CONNECTICUT LIGHT & POWER CO., SCALE 1"=50', DATED JANUARY 17, 1952, REVISED TO 1/15/96.
    - "MAP OF PROPERTY TO BE CONVEYED TO THE SOUTHERN NEW ENGLAND TELEPHONE CO. LOCATED AT BRISTOL, CONN." BY CHARLES A. CAHN, SCALE 1"=20', DATED MAY 1959, REVISED JUNE 1959.
    - "PLOT PLAN TO MICROWAVE SITE SOUTH MOUNTAIN - BRISTOL", BY SNET, SCALE 1"=40', DATED 6/15/99.
    - "SOUTHERN NEW ENGLAND TELEPHONE COMPANY BRISTOL, CONN.", BY CHARLES A. CAHN, SCALE 1"=50', DATED APRIL 7, 1965.
    - "SURVEY PROPERTY OF JACKLIN ROD AND GUN CLUB, INC. WILLIS ST. BRISTOL, CONNECTICUT", BY H. DOOLITTLE, SCALE 1"=100', DATED FEBRUARY 10, 1989.
    - "MAP SHOWING LAND OWNED BY ETHEL B. BARRETT 750 WILLIS STREET BRISTOL, CONNECTICUT", BY NERIAN SURVEYING, SCALE 1"=50', DATED SEPTEMBER 1988, REVISED OCTOBER 1988.
    - "PROPERTY & TOPOGRAPHIC MAP SNET LEASE PARCEL WILLIS STREET BRISTOL, CONNECTICUT PREPARED FOR SNET CELLULAR", BY GRENER, SCALE 1"=20', DATED MARCH 1993, REVISED TO 2-10-94.
    - "BOUNDARY & PARTIAL TOPOGRAPHIC SURVEY TOWER SITE WILLIS STREET BRISTOL, CONNECTICUT PREPARED FOR SNET MOBILITY, INC.", BY URS GRENER WOODWARD CLINE, SCALE 1"=20', DATED JANUARY 1999.
  - THE LEASE PARCEL LOCATION IS BASED UPON THE MAPS IN NOTES 4B, 4C, 4D & 4E.
  - THE PROPERTY IS LOCATED IN ZONE C PER THE NATIONAL FLOOD INSURANCE PROGRAM MAP, COMMUNITY PANEL NUMBER 090023 0009 B, DATED NOVEMBER 18, 1991.
  - THE PROPERTY IS LOCATED IN A R-25 SINGLE-FAMILY RESIDENTIAL ZONE. SETBACK REQUIREMENTS: FRONT 40 FEET, SIDE 15 FEET, REAR 40 FEET AS MORE PARTICULARLY DESCRIBED IN THE ZONING ZONING REGULATIONS.
  - UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH UNDERGROUND FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO URS CORPORATION AND ITS APPLICANT. THE SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-322-4443.

**SURVEYOR'S CERTIFICATE**

I, MICHAEL G. WILMES, DO HEREBY CERTIFY TO SPECTRASITE COMMUNICATIONS, INC., FEDERAL ANTI-TRUST ADMINISTRATION THAT THIS SURVEY WAS MADE ON THE GROUND UNDER MY PERSONAL SUPERVISION AND THAT THIS IS A TRUE, CORRECT REPRESENTATION OF THE FACTS AS FOUND AT THIS TIME OF THE SURVEY, AND MORE SPECIFICALLY, I DO HEREBY CERTIFY THAT THE SURVEY CONFORMS TO THE CONDITIONS AND STIPULATIONS AS CHECKED (X) BELOW (NOTES ON LEASED PARCELS, "SUBJECT PROPERTY" IS DEFINED AS THE LEASED PREMISES AND ITS APPURTENANT EASEMENTS, AND THIS SURVEY SHALL NOT BE CONSTRUED AS A FULL BOUNDARY SURVEY OF THE PARENT TRACT):

- (X) 1. CORRECTLY SHOWS THE LOCATION AND DIMENSION OF ALL ALLEYS, STREETS, ROADS, RIGHTS-OF-WAY, EASEMENTS AND OTHER MATTERS OF RECORD WHICH THE SURVEYOR HAS BEEN ADVISED AFFECTS THE SUBJECT PROPERTY (EACH HAS BEEN IDENTIFIED BY INSTRUMENT VOLUME AND PAGE NUMBER IF AVAILABLE).
- (X) 2. EXCEPT AS SHOWN THERE ARE NO VISIBLE EASEMENTS, RIGHTS -OF-WAY, PARTY WALLS OR CONDUITS.
- (X) 3. ACCESS IS CONTIGUOUS BETWEEN THE SUBJECT PROPERTY AND A PUBLIC RIGHT-OF-WAY, AS SHOWN.
- (X) 4. THE LEGAL DESCRIPTION DEPICTED HEREON IS THE SAME DEMISED IN THE TITLE COMMITMENT REFERENCED HEREON.
- (X) 5. SURVEY MEETS OR EXCEEDS THE MINIMUM TECHNICAL STANDARDS FOR LAND BOUNDARY SURVEYS SET FORTH BY CONNECTICUT STATE LAW.

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

*Michael G. Wilmes* DATE 2-4-03  
PROFESSIONAL SURVEYOR # LS-14206

TRUE AND VALID COPIES OF THIS MAP OR PLAN MUST BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR. UNAUTHORIZED REPRODUCTION OR ALTERATION IS FORBIDDEN.



Work Coordinated by <b>URS</b>	Surveying and Mapping by <b>URS Corporation A-E-S</b>	SHEET 1 of 2
Scale: AS NOTED Date: JULY 2001	500 Enterprise Drive, Suite 39 Randy Hill, Connecticut 06067-4002 Tel. (860) 529-8882	SPECTRASITE CONSTRUCTION AS-BUILT LAND SURVEY SCOPE 1 REVISION
Field book # 1506-55	Crew Chief F. RICHARDSON	Project # F3-00002092.03
Search # 3075	Drawn by EL	Checked by JL
	Map File # T145-33	
Prepared For <b>SPECTRASITE COMMUNICATIONS</b>	Project Location BRISTOL, CONNECTICUT	Lease Area Description Revised 1-28-03
100 REGENCY FOREST DRIVE, SUITE 400 CARY, NC 27511	Project Address WILLIS STREET	
	Site Name BRISTOL	
	Spectrasite Number CT-0036	

**Dewberry**  
Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
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1	FINAL	VL	01/22/24

ATC SITE NUMBER:  
302500

ATC SITE NAME:  
BRST - BRISTOL

VERIZON SITE NAME:  
BRISTOL SW CT

SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269



ATC JOB NO: 14430738\_G2  
CUSTOMER ID: BRISTOL SW CT  
CUSTOMER #: 5000917346 (780529)

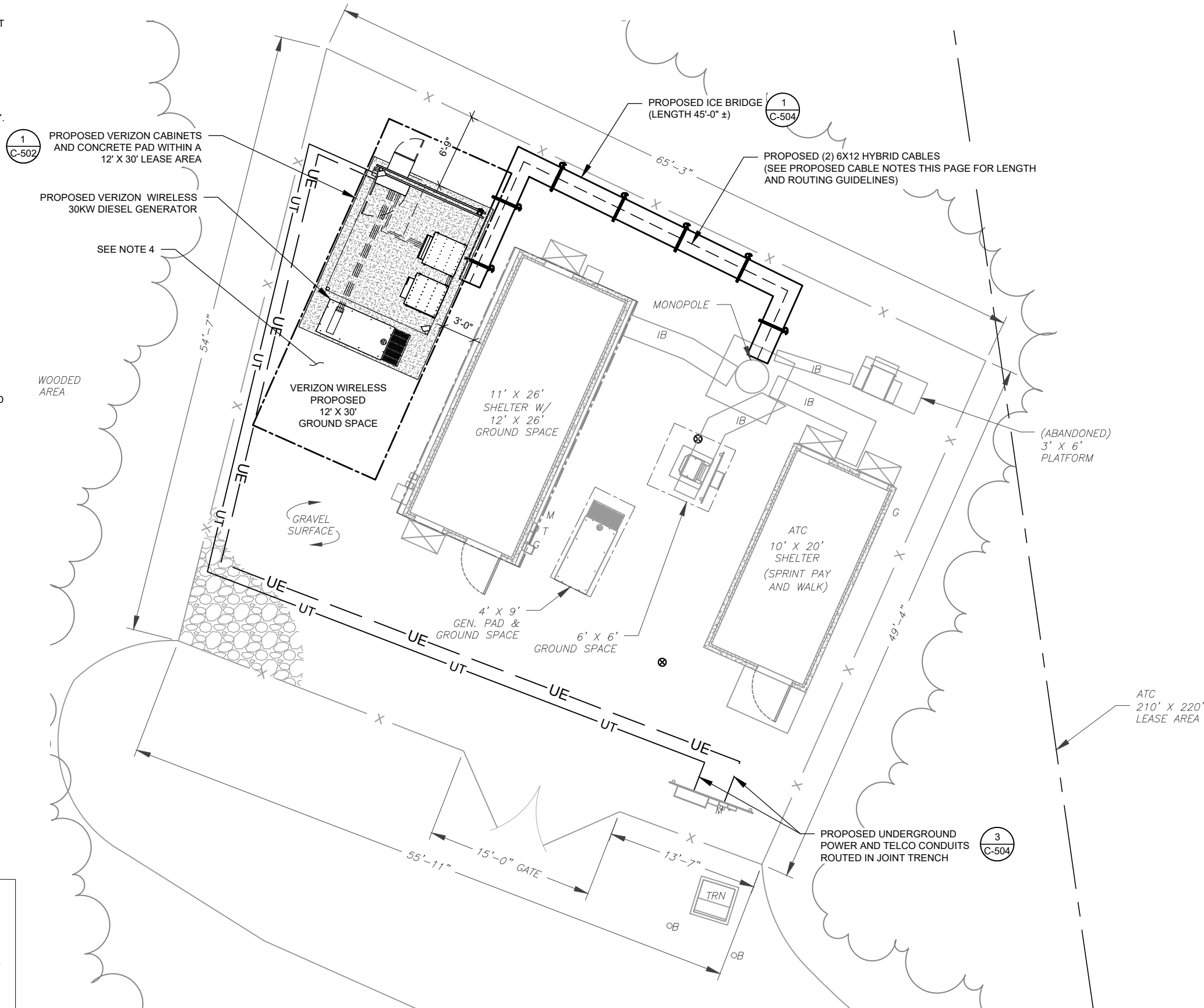
OVERALL SITE PLAN

SHEET NUMBER:  
**C-001**

REVISION:  
**1**

**SITE PLAN NOTES:**

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE VERIZON REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- CONTRACTOR TO PROVIDE STRUCTURAL FILL AS REQUIRED TO LEVEL COMPOUND FOR PROPOSED PAD. REFER TO SHEET C-505, DETAIL 3 FOR BACKFILL REQUIREMENTS.



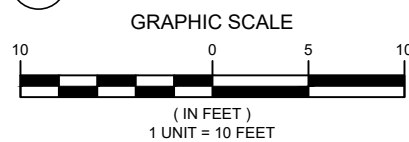
**LEGEND**

- ⊗ GROUNDING TEST WELL
- ATS AUTOMATIC TRANSFER SWITCH
- B BOLLARD
- CSC CELL SITE CABINET
- D DISCONNECT
- E ELECTRICAL
- F FIBER
- GEN GENERATOR
- G GENERATOR RECEPTACLE
- HH, V HAND HOLE, VAULT
- IB ICE BRIDGE
- K KENTROX BOX
- LC LIGHTING CONTROL
- M METER
- PB PULL BOX
- PP POWER POLE
- T TELCO
- TRN TRANSFORMER
- x CHAINLINK FENCE

**PROPOSED CABLE NOTES:**

- ESTIMATED LENGTH OF PROPOSED CABLE IS **181'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

**1 DETAILED SITE PLAN**



**Dewberry**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.695.3400  
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
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**BRST - BRISTOL**  
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**BRISTOL SW CT**  
 SITE ADDRESS:  
 790 WILLIS STREET  
 BRISTOL, CT 06010-7269

SEAL:

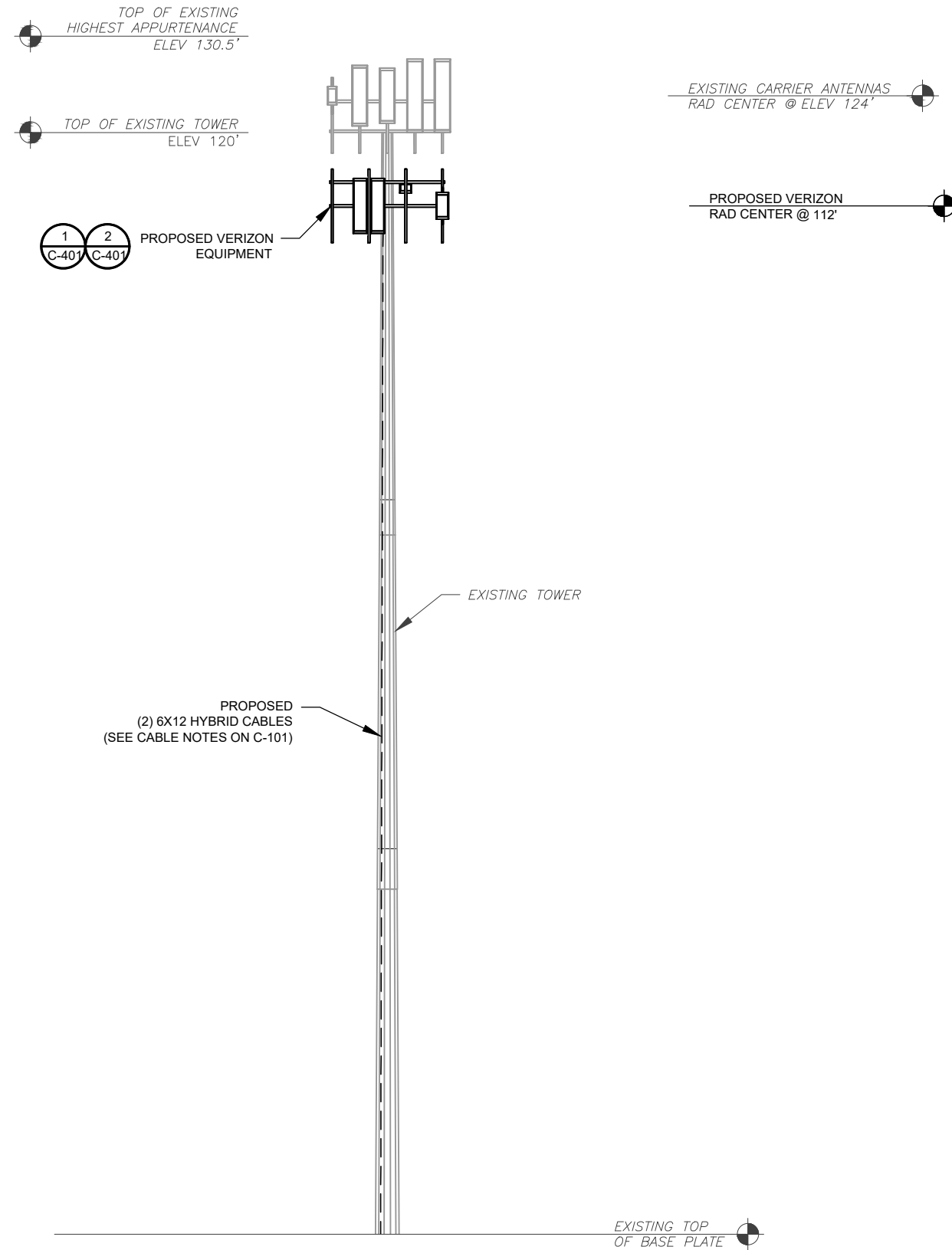


ATC JOB NO: 14430738\_G2  
 CUSTOMER ID: BRISTOL SW CT  
 CUSTOMER #: 5000917346 (780529)

**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-101**  
 REVISION:  
**1**

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 11/06/23, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



**1 TOWER ELEVATION**  
SCALE: N.T.S.

**TOWER NOTE:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED 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 STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269



ATC JOB NO:	14430738_G2
CUSTOMER ID:	BRISTOL_SW CT
CUSTOMER #:	5000917346 (780529)

<b>TOWER ELEVATION</b>	
SHEET NUMBER: <b>C-201</b>	REVISION: <b>1</b>

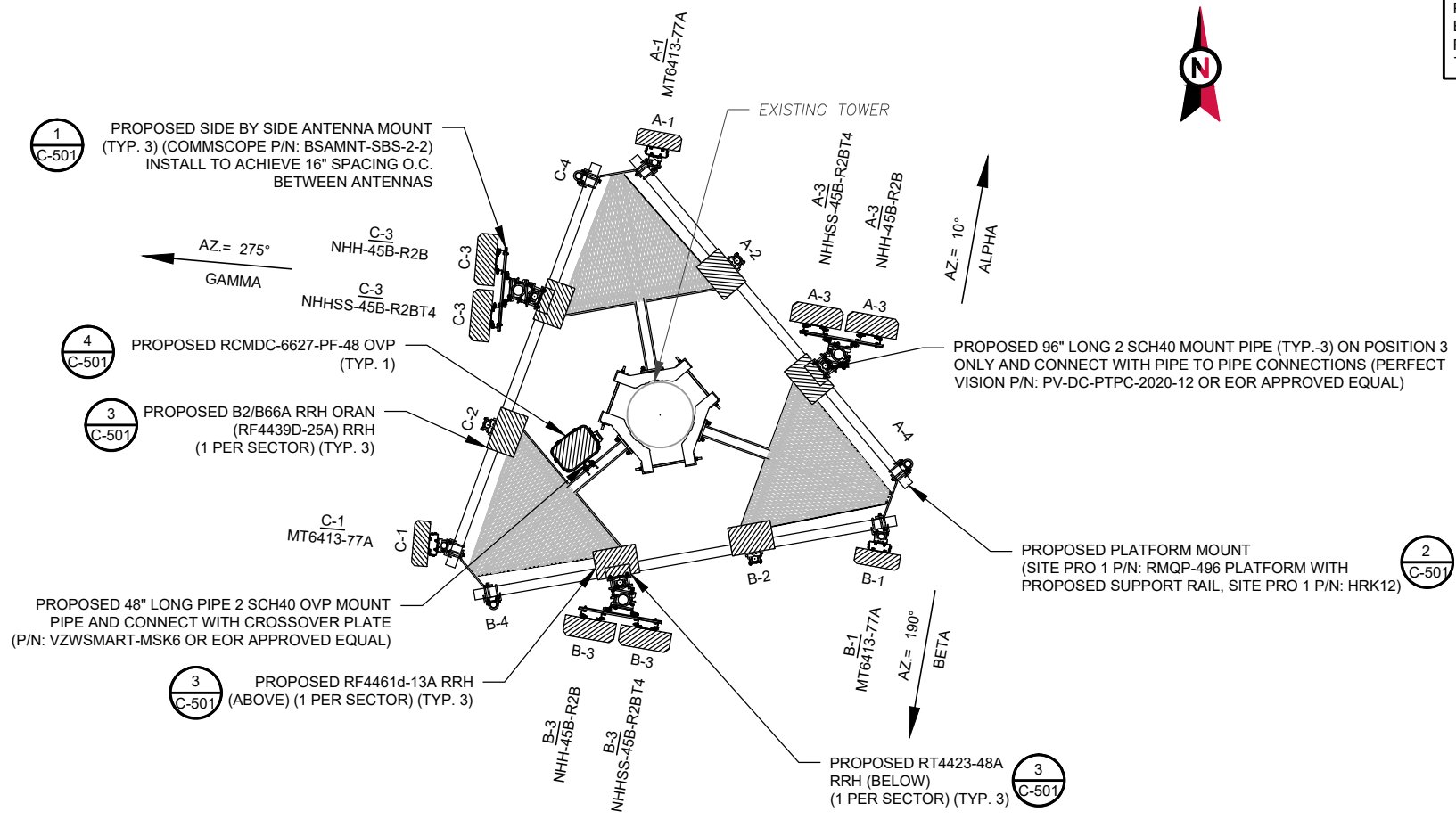
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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 11/06/23, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



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

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SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269



FINAL EQUIPMENT SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION
ALPHA	112'	10°	A1	MT6413-77A	5G L-SUB6	-	(2) 6X12 HYBRID
			A2	-	-	B2/B66A RRH ORAN (RF4439D-25A)	
			A3	NHHSS-45B-R2BT4	LTE 700, LTE 850, 5G 850, LTE AWS, LTE CBRS	RF4461D-13A RRH (ABOVE)	
			A4	NHH-45B-R2B	LTE 700, 5G 850, LTE 850, LTE 1900	RT4423-48A RRH (BELOW)	
BETA	112'	190°	B1	MT6413-77A	5G L-SUB6	-	
			B2	-	-	B2/B66A RRH ORAN (RF4439D-25A)	
			B3	NHHSS-45B-R2BT4	LTE 700, LTE 850, 5G 850, LTE AWS, LTE CBRS	RF4461D-13A RRH (ABOVE)	
			B4	NHH-45B-R2B	LTE 700, 5G 850, LTE 850, LTE 1900	RT4423-48A RRH (BELOW)	
GAMMA	112'	275°	C1	MT6413-77A	5G L-SUB6	-	
			C2	-	-	B2/B66A RRH ORAN (RF4439D-25A)	
			C3	NHHSS-45B-R2BT4	LTE 700, LTE 850, 5G 850, LTE AWS, LTE CBRS	RF4461D-13A RRH (ABOVE)	
			C4	NHH-45B-R2B	LTE 700, 5G 850, LTE 850, LTE 1900	RT4423-48A RRH (BELOW)	

- CONFIRM WITH CARRIER REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
- SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED FOR TOWER CONFLICTS AND PROPOSED MOUNTS SHALL NOT IMPEDE TOWER CLIMBING PEGS.
- INSTALL (1) RCMD-6627-PF-48 OVP.

**2 ANTENNA SCHEDULE**

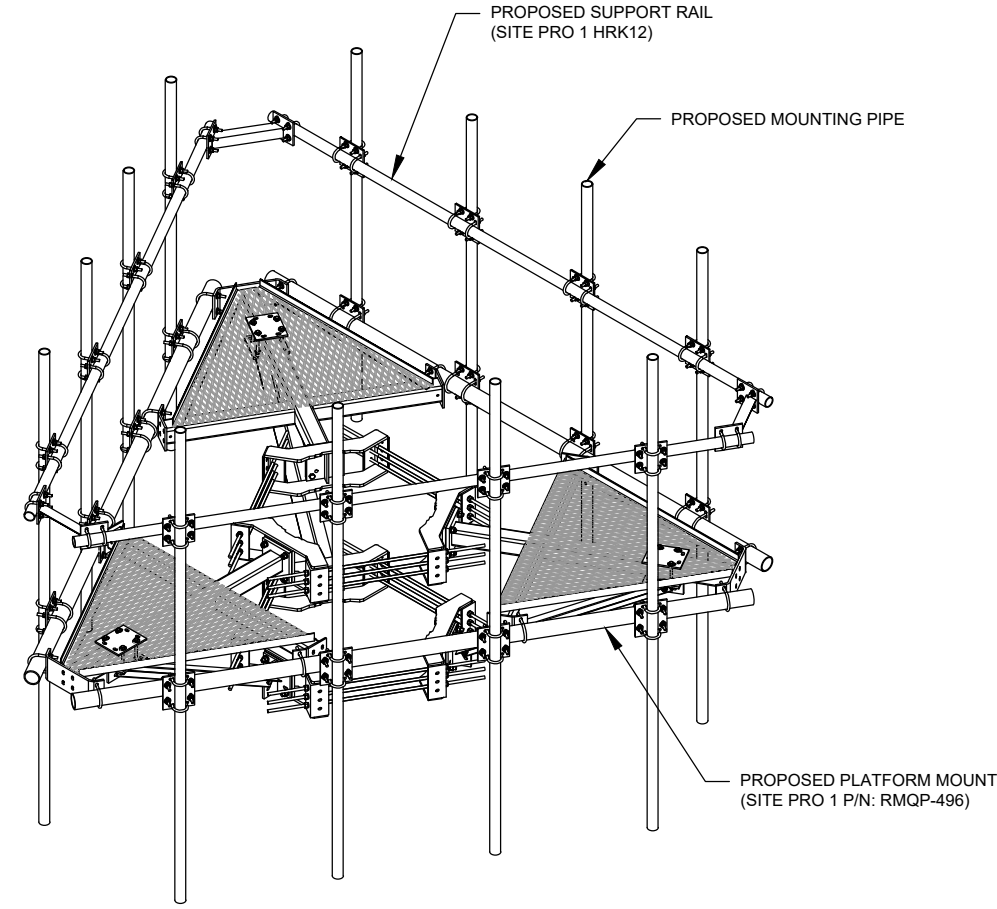
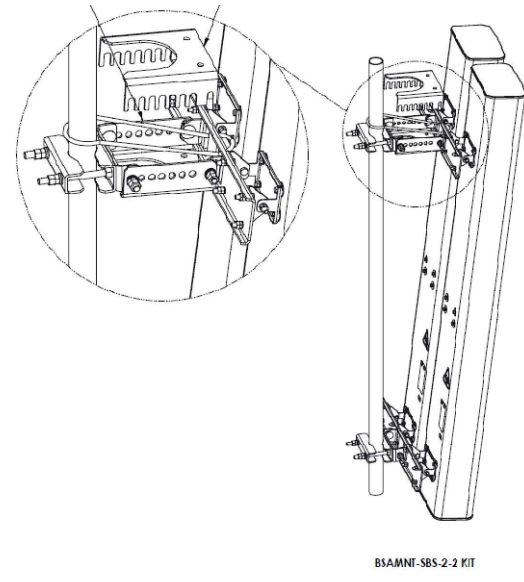
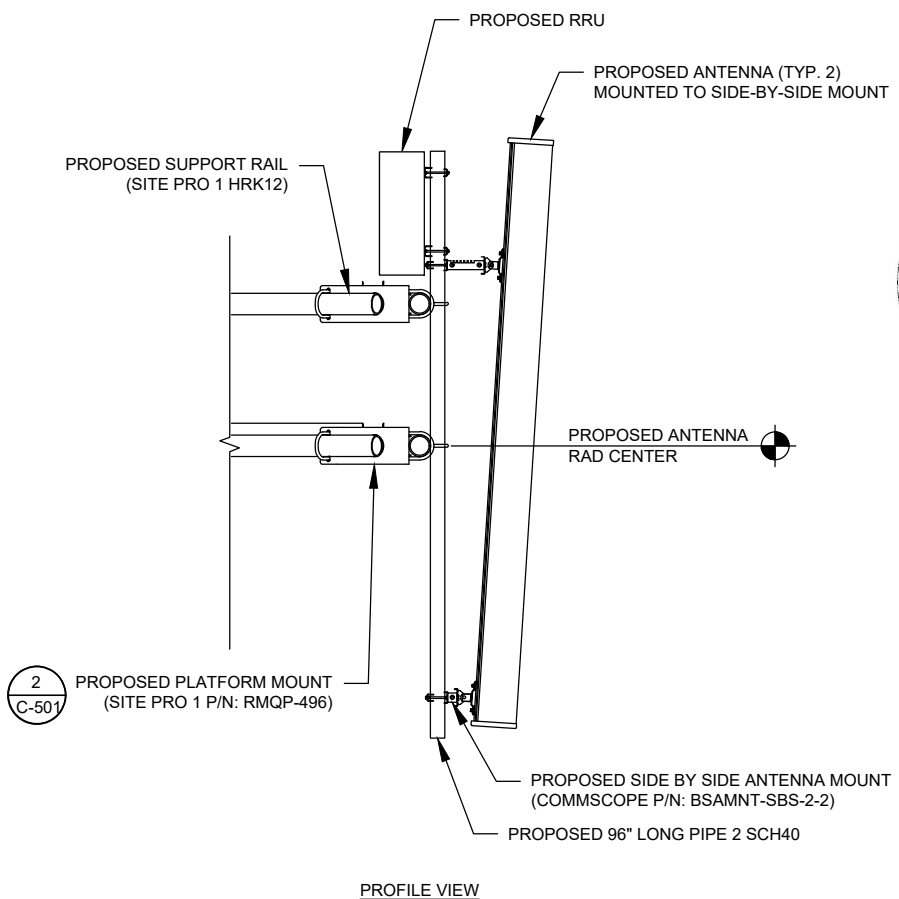
RF JUMPER LENGTH
MONOPOLE = 15'± GUYED / SELF SUPPORT = FACE WIDTH + 15'
REFER TO FINAL RFDS FOR TYPE AND QUANTITY



ATC JOB NO: 14430738\_G2  
CUSTOMER ID: BRISTOL SW CT  
CUSTOMER #: 5000917346 (780529)

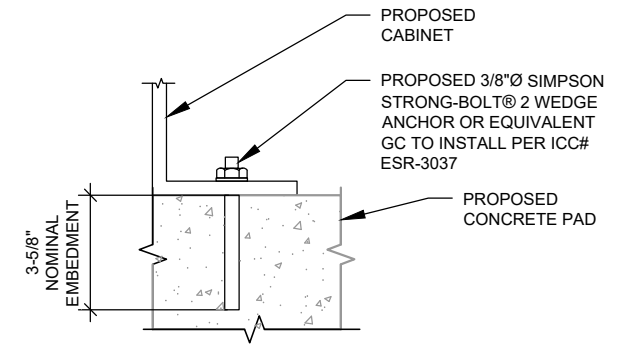
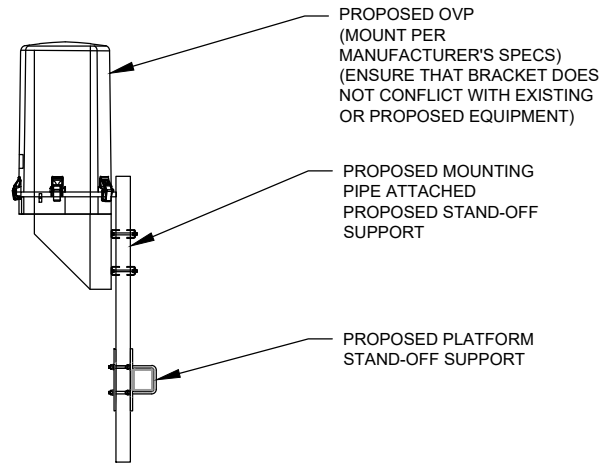
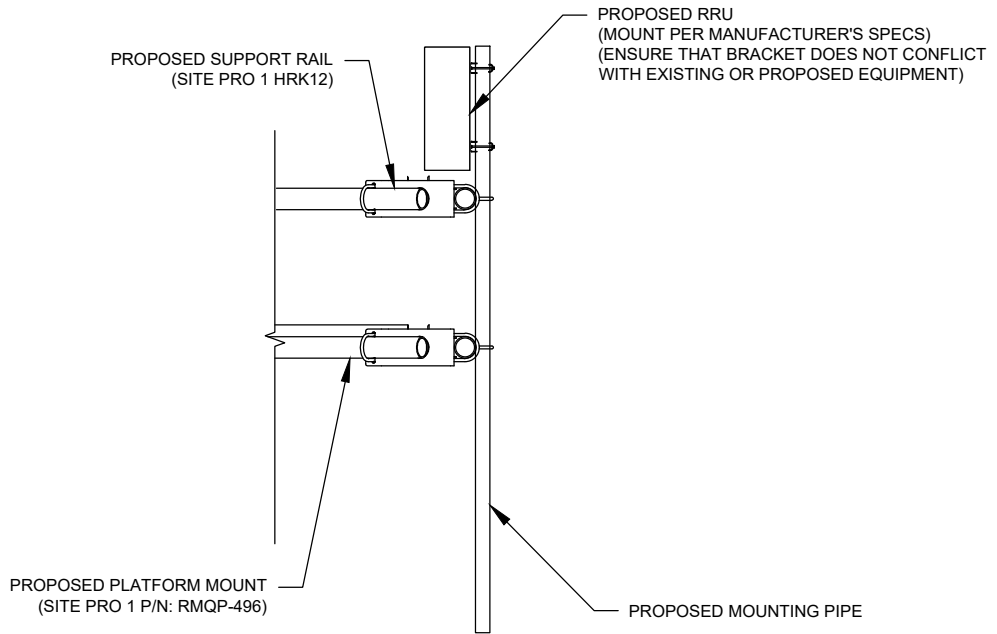
**ANTENNA INFORMATION & SCHEDULE**

SHEET NUMBER: **C-401** REVISION: **1**



1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)  
SCALE: N.T.S.

2 ISOMETRIC MOUNT DETAIL  
SCALE: N.T.S.



NOTE:  
INSTALL SIMPSON STRONG-TIE® STRONG-BOLT® 2 WEDGE ANCHOR(S) STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.STRONGTIE.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

3 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.

4 PROPOSED OVP MOUNTING  
SCALE: N.T.S.

5 CABINET ATTACHMENT DETAIL  
SCALE: N.T.S.



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
B	PRELIM	VL	08/30/23
0	FINAL	VL	12/21/23
1	FINAL	VL	01/22/24

ATC SITE NUMBER:  
302500  
ATC SITE NAME:  
BRST - BRISTOL  
VERIZON SITE NAME:  
BRISTOL SW CT  
SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269

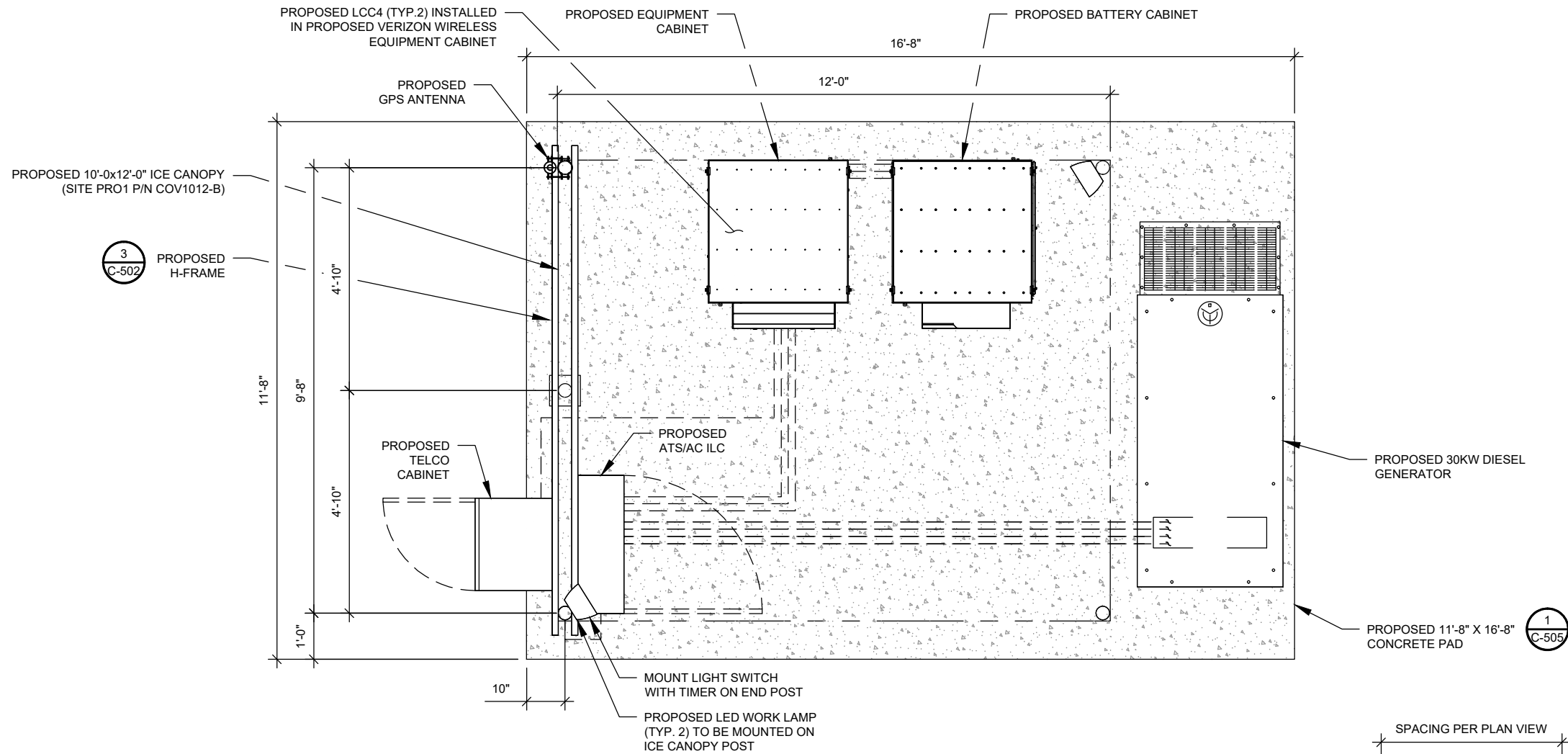


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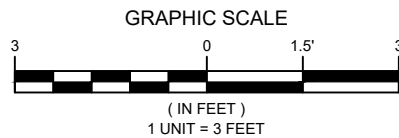
MOUNT DETAILS

SHEET NUMBER:  
**C-501**  
REVISION:  
**1**

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1 PROPOSED GROUND EQUIPMENT LAYOUT



VERIZON WIRELESS PROVIDED EQUIPMENT

- CHARLES INDUSTRIES CUBE-SS4B231PX2 EQUIPMENT WITH BATTERY CHARGER
- RAYCAP OVP-12 (RCMDC-3315-PF-48)

CONTRACTOR PROVIDED EQUIPMENT

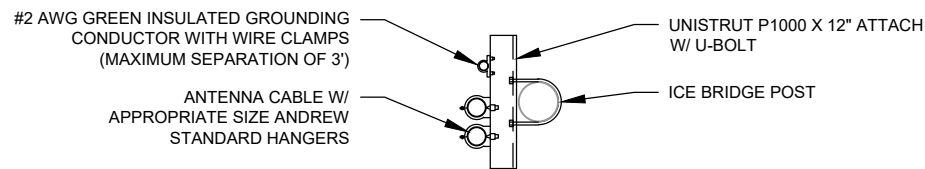
\* THIS IS NOT A COMPREHENSIVE LIST. IT SHOULD BE ASSUMED BY THE CONTRACTOR THAT ALL OTHER ITEMS DETAILED IN THIS SET OF DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.

- 18"X18" FIBER JUNCTION BOX, NEMA 3R CABINET ENCLOSURE WITH WOODEN BACKBOARD, PADLOCK LATCH, AND COMBINATION LOCK (USE FOR DARK FIBER)

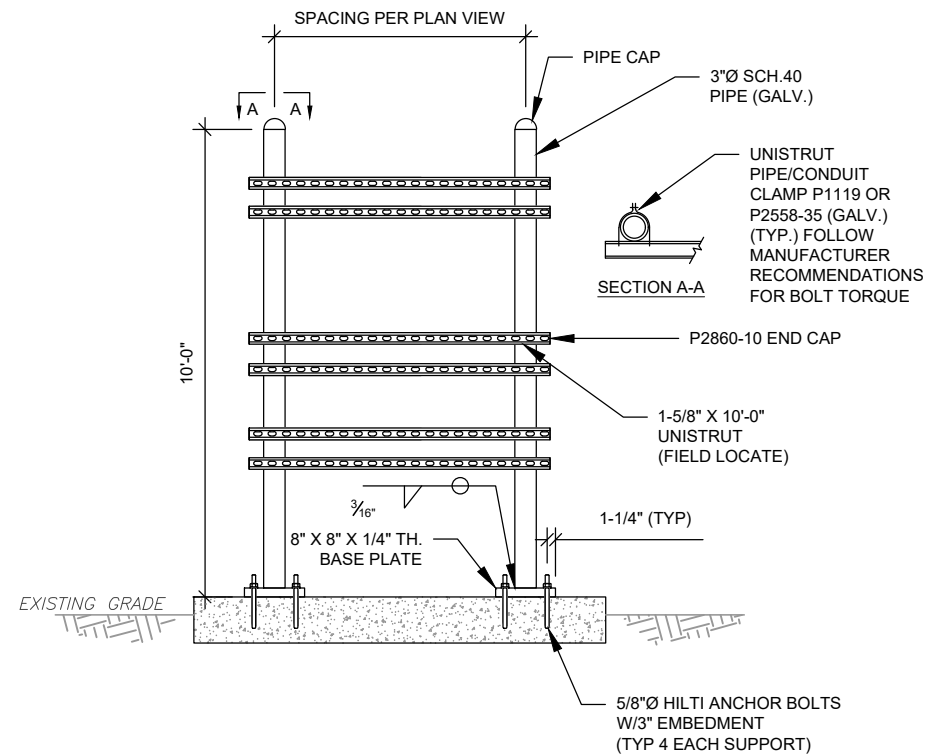
- 26.2" WIDE X 78" TALL X 12.3" DEEP ASCO D300L SERIES POWER TRANSFER LOAD CENTER MODEL AA300G-1PH-N-3R INTEGRATED LOAD CENTER "ILC" WITH COMBINATION PAD LOCK.

- 22" WIDE X 26" TALL X 20" DEEP CHARLES INDUSTRIES CUBE-RL1003C-1 WITH HEAT EXCHANGER (120V) WITH TRIPP-LITE UPS PART #SM1200RML2UTAA INSIDE (ONLY REQUIRED WHEN VZT PROVIDES LIT FIBER. UTILITY COORDINATOR MUST VERIFY IF NEEDED)

- COORDINATE ADDITIONAL ENTRY GATE LOCK(S) WITH CONSTRUCTION MANAGER



2 WAVEGUIDE UNISTRUT SCALE: N.T.S.



3 TYPICAL H-FRAME AND ICE BRIDGE POST DETAIL SCALE: NOT TO SCALE



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SEAL:



ATC JOB NO: 14430738\_G2  
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CONSTRUCTION DETAILS

SHEET NUMBER:  
**C-502**  
 REVISION:  
**1**





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BRST - BRISTOL

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BRISTOL SW CT

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 BRISTOL, CT 06010-7269

SEAL:

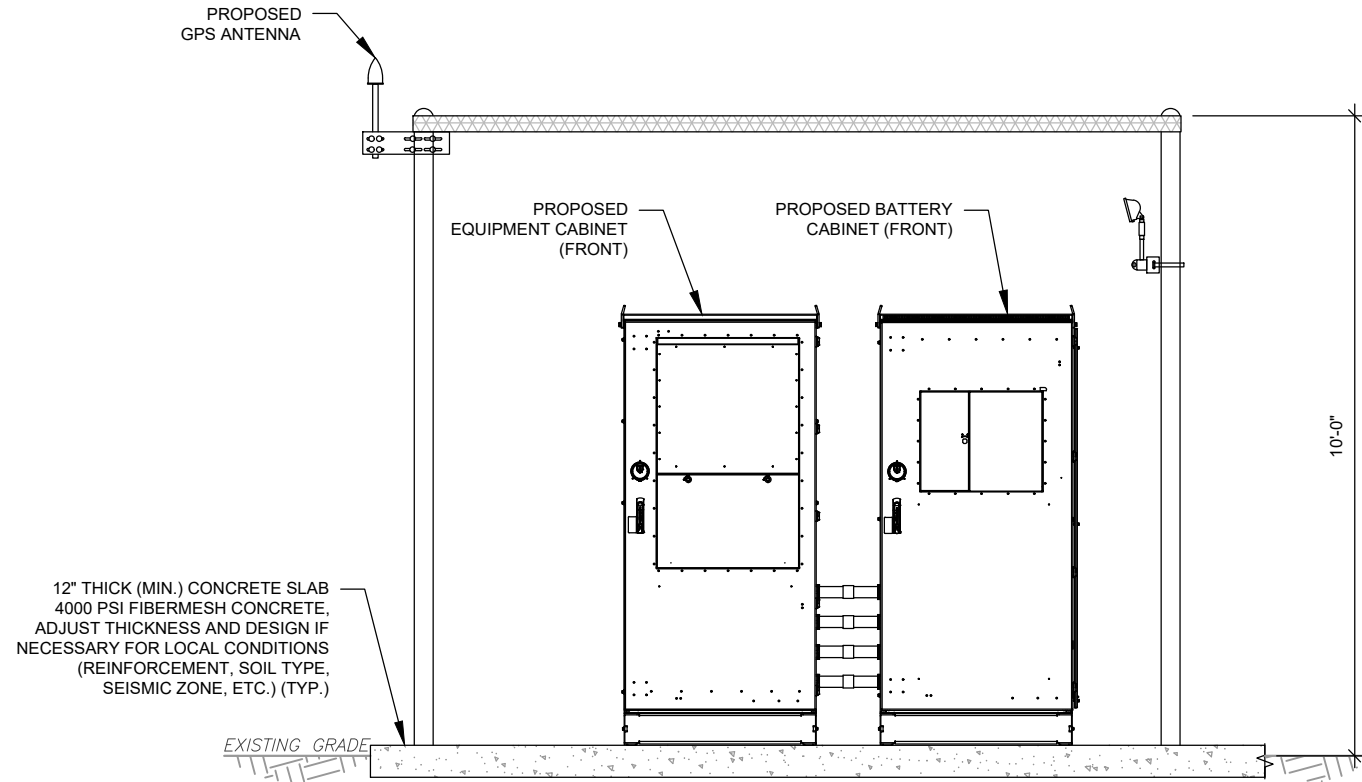


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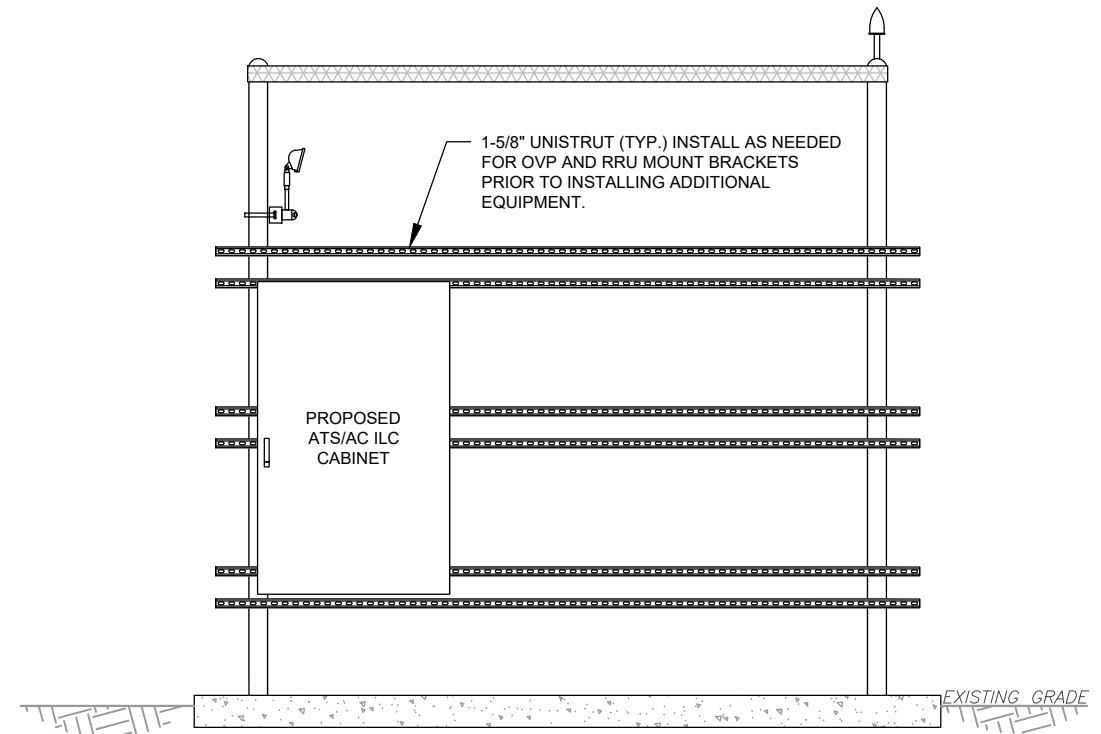
**CONSTRUCTION DETAILS**

SHEET NUMBER: **C-503**      REVISION: **1**

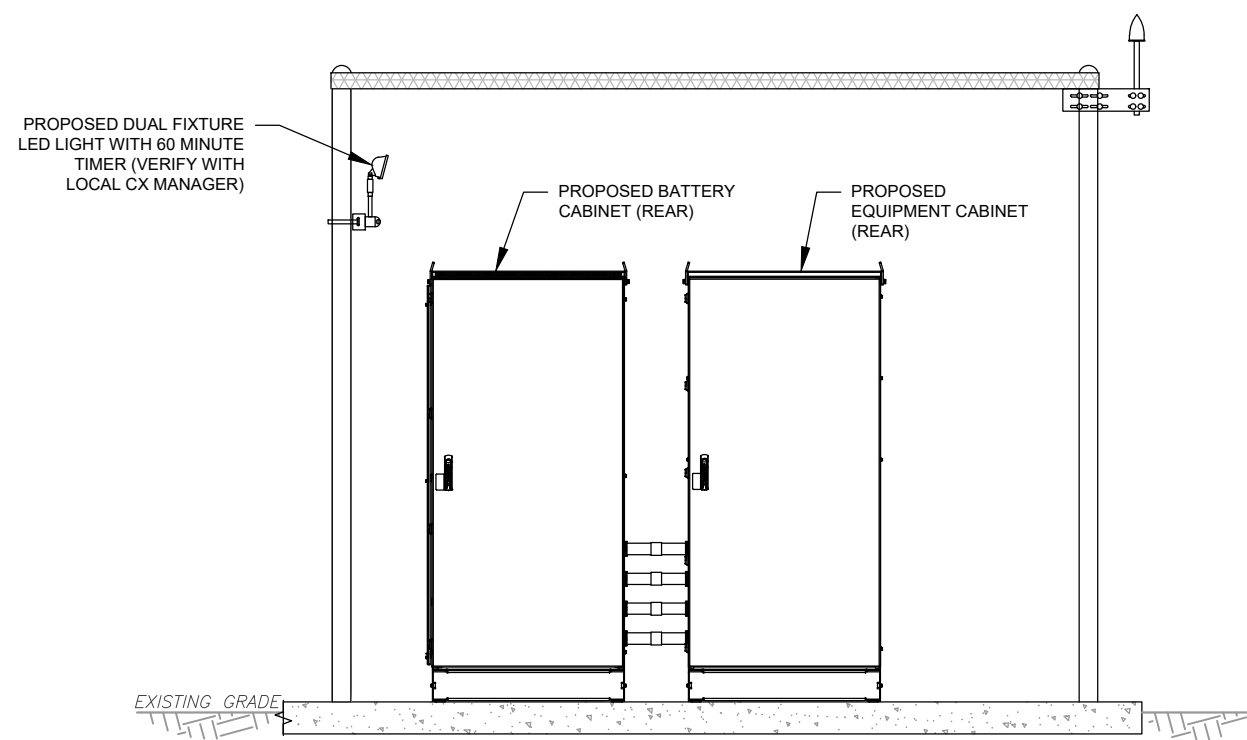
NOTE:  
 1. INTERCONNECTING CONDUITS SHALL BE INSTALLED AT OR ABOVE GRADE.  
 2. BOTTOM OF OVP'S SHALL NOT EXCEED 36" ABOVE FINISHED GRADE.



FRONT VIEW

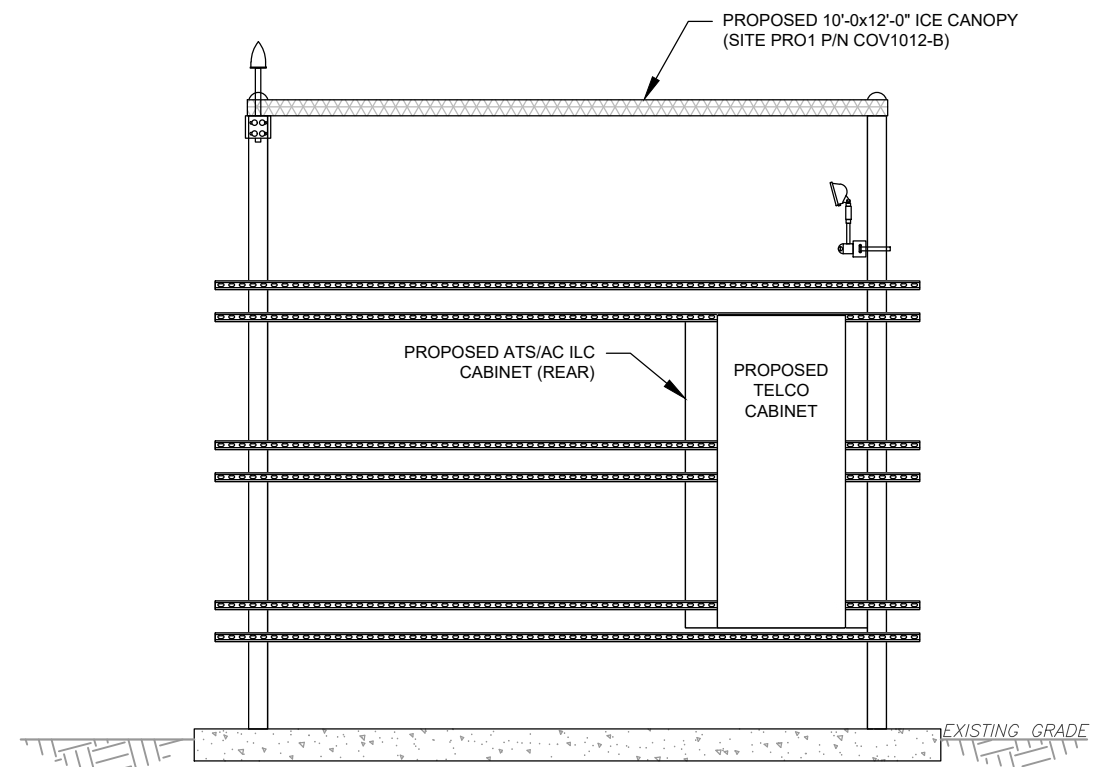


FRONT VIEW



REAR VIEW

1 DETAILED CABINET LAYOUT  
 SCALE: NOT TO SCALE

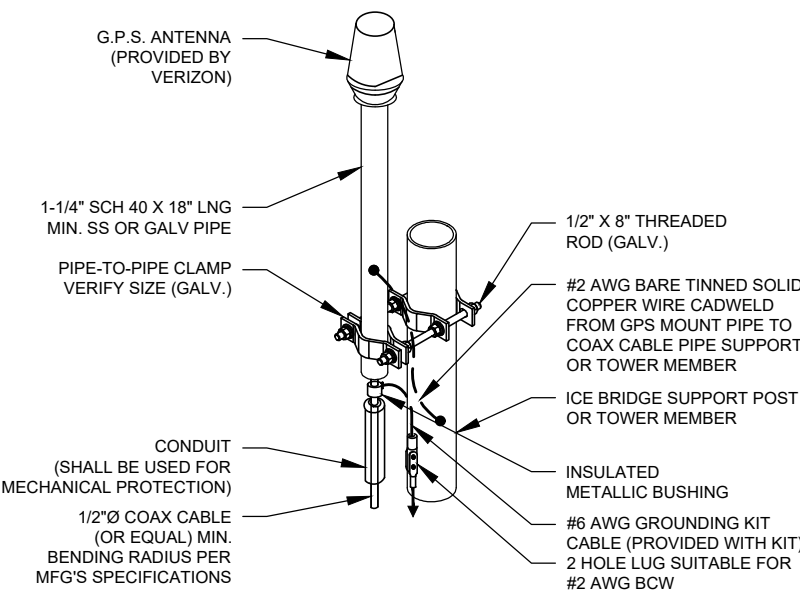
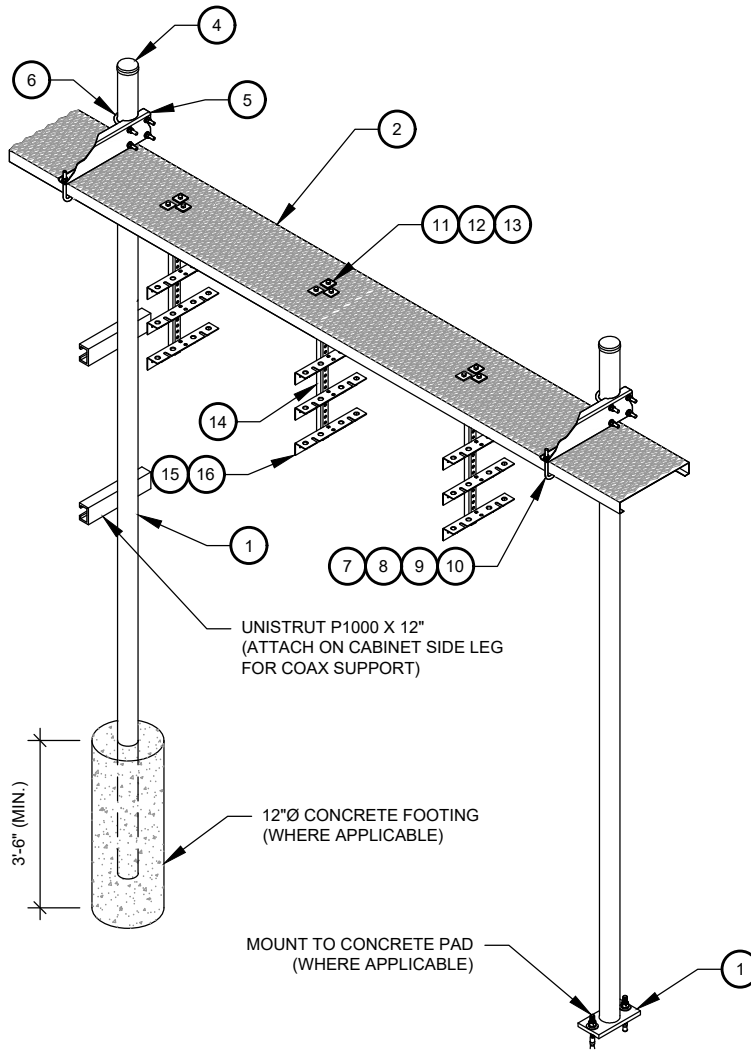


REAR VIEW

2 DETAILED H-FRAME LAYOUT  
 SCALE: NOT TO SCALE

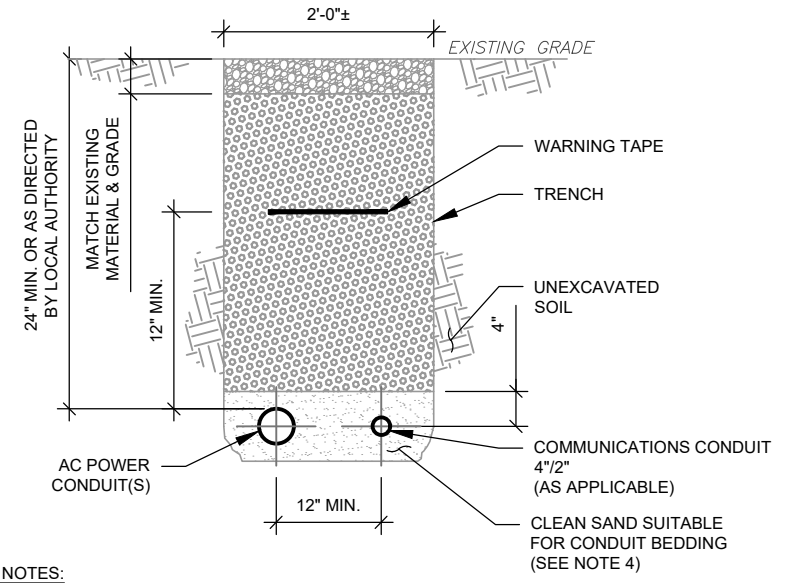
**CONSTRUCTION NOTE:**

1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.



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

**2 GPS ANTENNA ATTACHMENT DETAIL**  
SCALE: N.T.S.



- TRENCH NOTES:**
1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
  2. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
  3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
  4. USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW GRADE.
  5. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

**3 POWER/TELCO CONDUIT TRENCH DETAILS**  
SCALE: N.T.S.

**WB-K210-B WAVEGUIDE BRIDGE KIT - BILL OF MATERIALS (INCLUDED WITH KIT UNLESS NOTED OTHERWISE)**

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	MF126.01 MF-130	10'-4" COLUMN & BASE SHOE* 13'-4" PIPE COLUMN	9	GWL-04	1/2" GALV LOCK WASHER
2	WB-CY210	SAFETY GRATING 24" X 10'	10	GN-04	1/2" GALV HEX NUT
3	WBK110BHK	HARDWARE KIT (ITEMS 4-16)	11	GB-03205	3/8" X 2" GALV BOLT KIT
4	PC-034	PIPE CAP 3-1/2"	12	MT-387	SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE
5	WBLB243.08	24" WAVEGUIDE BRIDGE SUPPORT BRACKET	13	GWF-03	3/8" GALV FLAT WASHER
6	GUB-4356	1/2" X 3-5/8" X 6" GALV U-BOLT	14	WBT243.01	VERTICAL TRAPEZE SECTION
7	WB-JB-6	1/2" J-BOLT	15	GB-03105	3/8" X 1" GALV BOLT KIT
8	GWF-04	1/2" GALV FLAT WASHER	16	WBT243.02	HORIZONTAL TRAPEZE SECTION

CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT.  
\*BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S.

**1 WAVEGUIDE BRIDGE KIT**  
SCALE: N.T.S.



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REV.	DESCRIPTION	BY	DATE
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**BRISTOL SW CT**  
SITE ADDRESS:  
790 WILLIS STREET  
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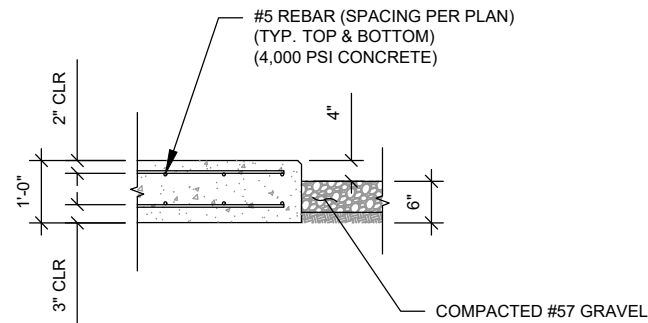
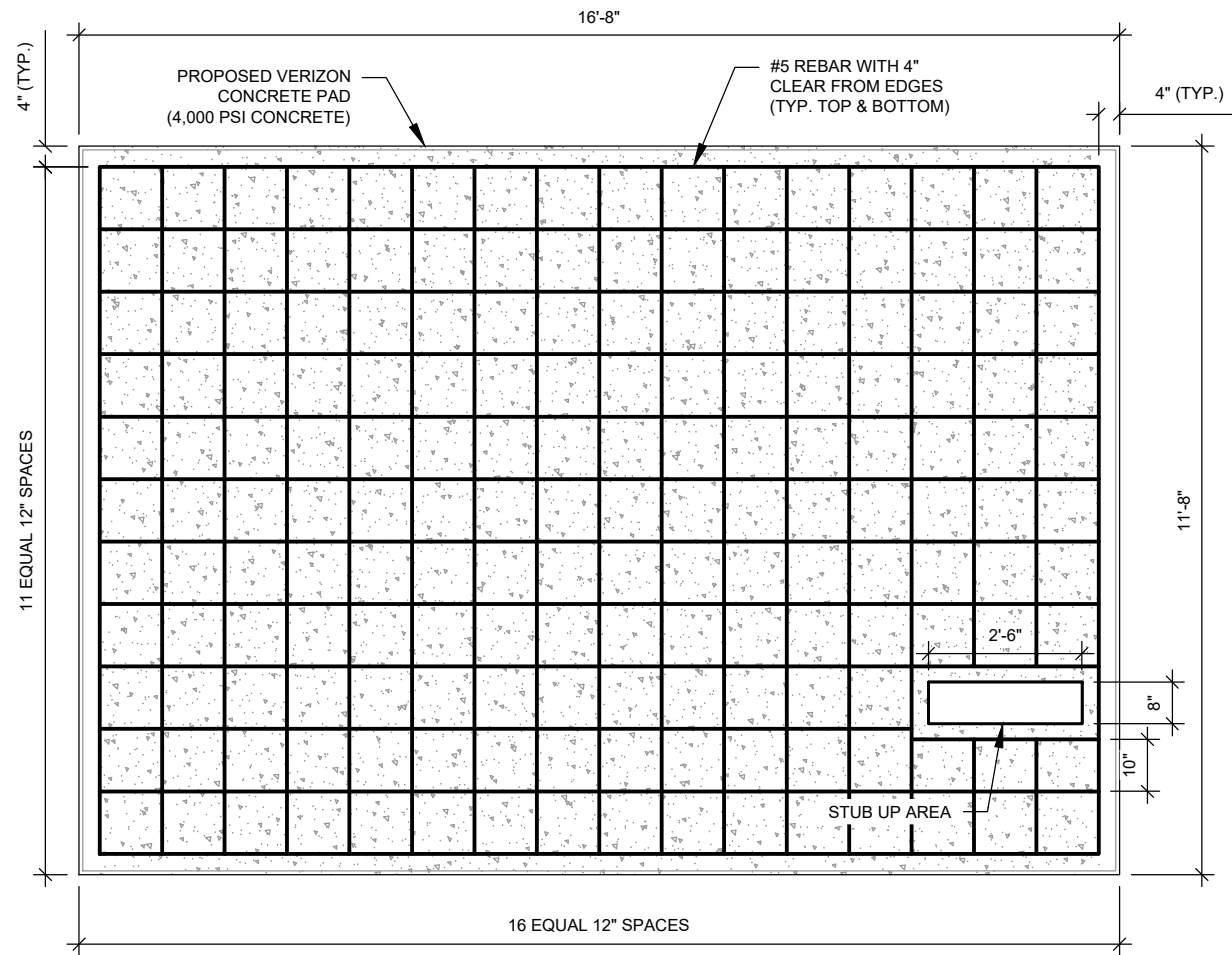


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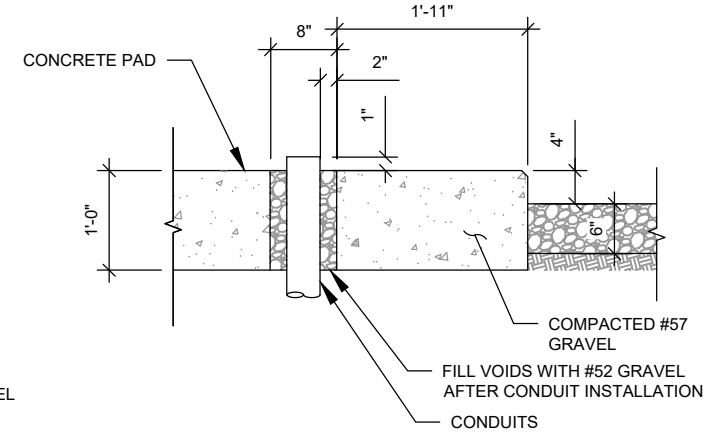
**CONSTRUCTION  
DETAILS**

SHEET NUMBER:  
**C-504**  
REVISION:  
**1**

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NOTE:  
THIS DESIGN ASSUMES A 1500  
PSF SOIL BEARING PRESSURE

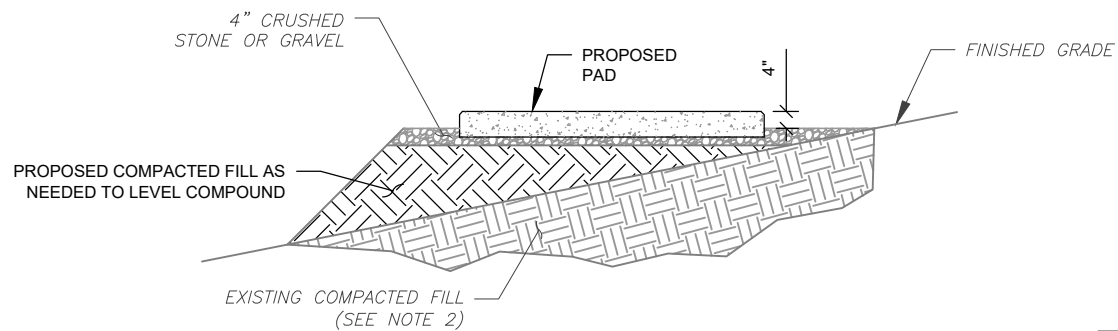


2 GENERATOR CONDUIT STUB UP DETAIL  
SCALE: N.T.S.

PAD NOTES:

- PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
- REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.

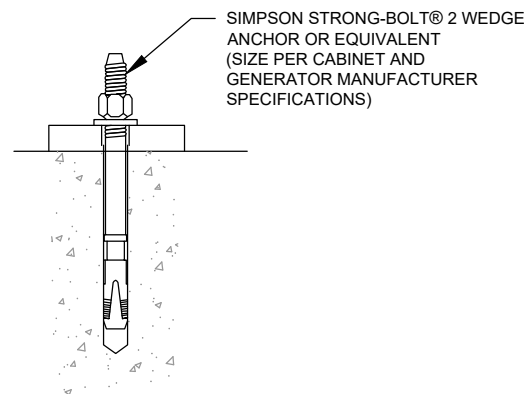
1 CONCRETE EQUIPMENT PAD DESIGN  
SCALE: N.T.S.



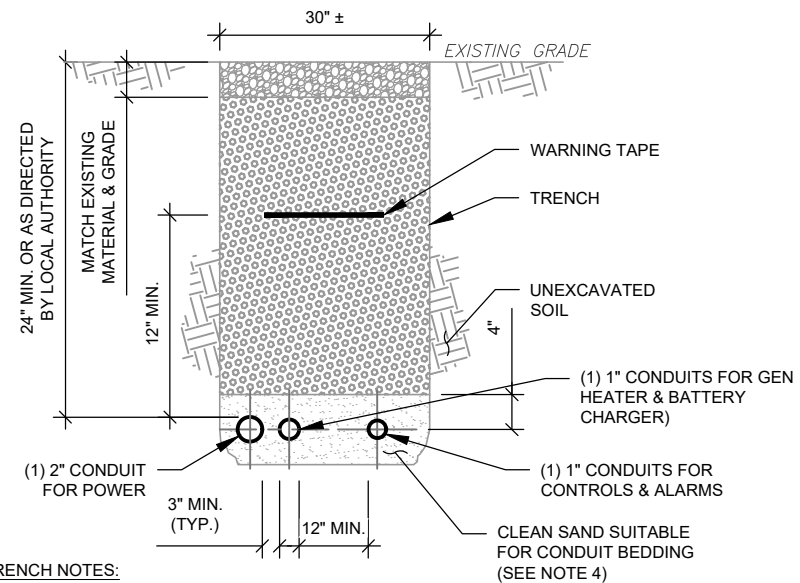
PAD NOTES:

- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETERIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
- CONTRACTOR TO REMOVE CRUSHED STONE IN FOOTPRINT OF PROPOSED PAD PLUS 2' PERIMETER, MECHANICALLY COMPACT EXISTING BACKFILL. CONTRACTOR TO PLACE NEW STRUCTURAL FILL AS REQUIRED TO LEVEL COMPOUND. ALL STRUCTURAL FILL SHOULD BE PLACED IN MAXIMUM 12" LOOSE LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557, THE MODIFIED PROCTOR DENSITY TEST.
- USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
- FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

3 GRAVEL PREPARATION  
SCALE: NOT TO SCALE



4 EXPANSION ANCHOR DETAIL  
SCALE: N.T.S.



TRENCH NOTES:

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
- COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
- USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW GRADE.
- CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

5 GENERATOR CONDUIT TRENCH DETAILS  
SCALE: N.T.S.



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SITE ADDRESS:  
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SEAL:



ATC JOB NO: 14430738\_G2  
CUSTOMER ID: BRISTOL SW CT  
CUSTOMER #: 5000917346 (780529)

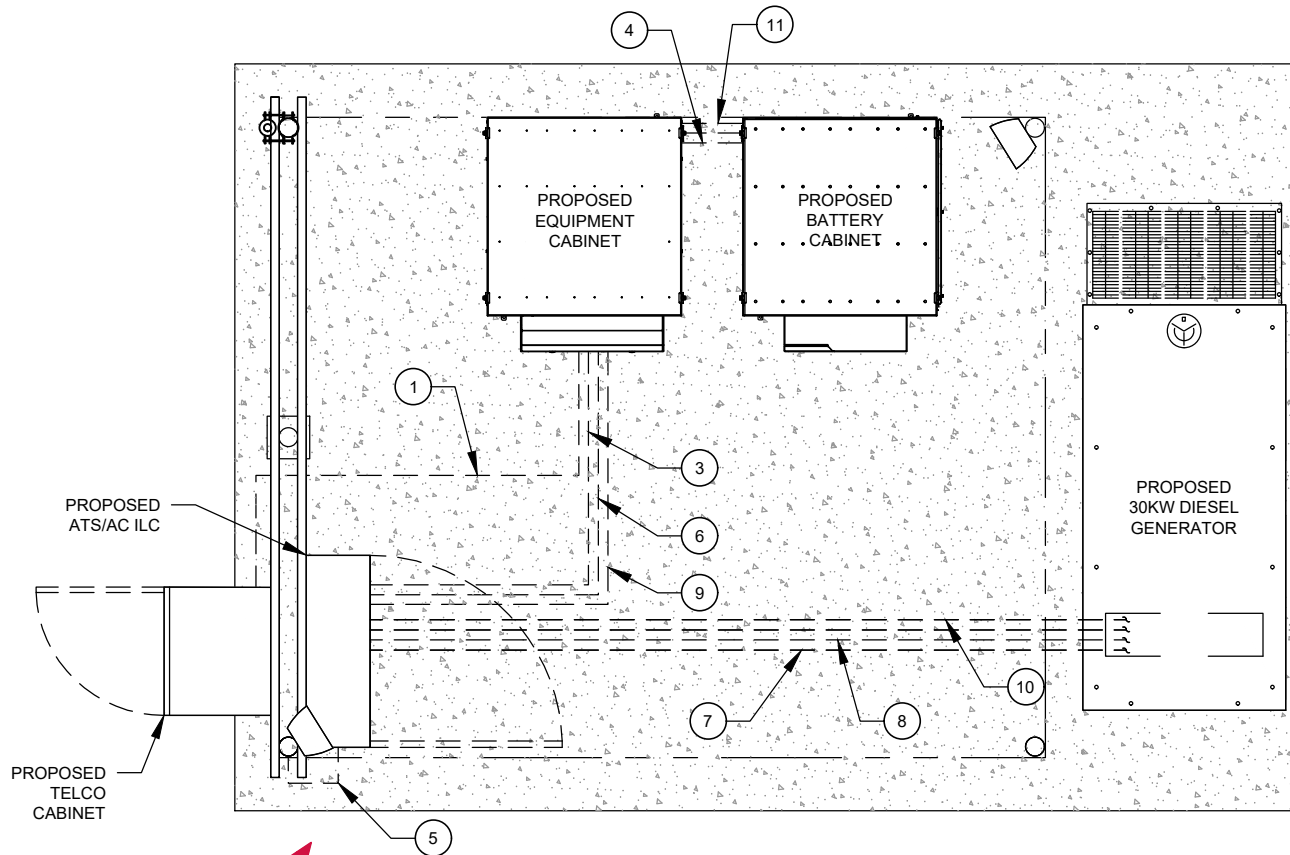
CONSTRUCTION  
DETAILS

SHEET NUMBER:  
**C-505**  
REVISION:  
**1**

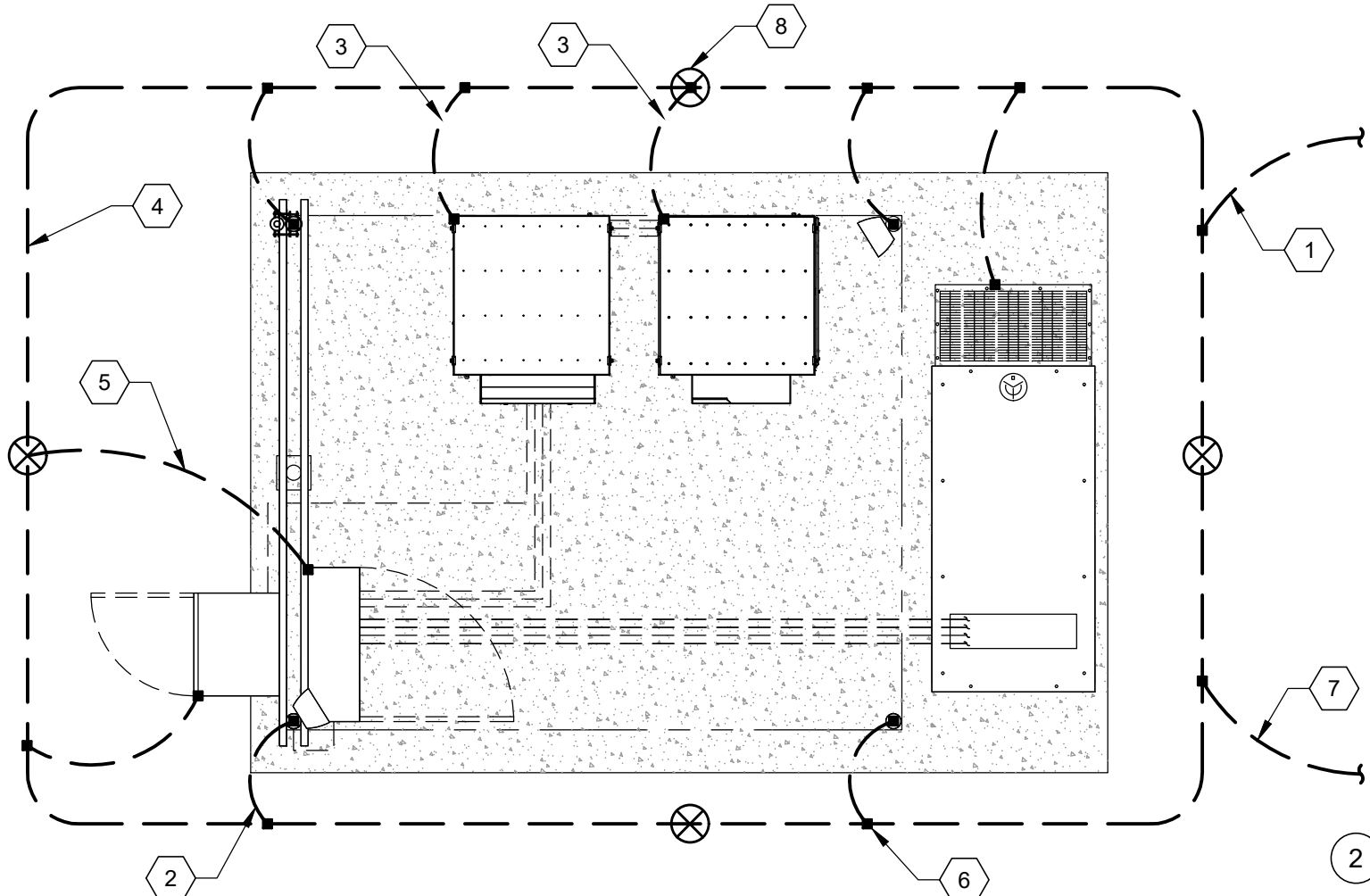
CONDUIT KEYED NOTES:

- 1 FIBER CONDUITS  
(1) 2" SCH. 40 PVC CONDUIT WITH MULE TAPE FROM TELCO BOX TO THE EQUIPMENT CABINET.
- 2 3" CONDUIT FROM TELCO CABINET TO TELCO GROUND VAULT
- 3 AC POWER CONDUITS  
(1) 2-1/2" CONDUIT WITH (12) #10 & (1) #10 G FROM THE ILC TO THE EQUIPMENT CABINET FOR (4) 30 AMP 2-POLE CIRCUITS.
- 4 (2) 3" CONDUIT WITH (2) 4/0 AWG CABLES FROM 5-STRING BATTERY CABINET TO EQUIPMENT CABINET.
- 5 (1) 1" CONDUIT WITH (2) #12 & (1) #12 G FROM ILC TO GFI RECEPTACLE/LIGHT. LIGHT SWITCH. CONTINUE 1" TO 2ND LIGHT.
- 6 (1) 2" CONDUIT WITH PULLSTRING FOR FUTURE RECTIFIER CIRCUITS FROM EQUIPMENT CABINET TO ILC.
- 7 (1) 2" CONDUIT WITH (3) #1/0 & (1) #6 G FROM THE ILC TO THE GENERATOR.
- 8 (1) 1" CONDUIT WITH (4) #12 & (1) #12 G FROM ILC TO GENERATOR. (GEN HEATER & BATTERY CHARGER)
- 9 ALARM/MISCELLANEOUS CONDUITS  
(1) 1" CONDUIT FROM ILC TO EQUIPMENT CABINET FOR ILC ALARMS.
- 10 (2) 1" CONDUIT FROM ILC TO GENERATOR [(1) FOR GEN CONTROLS, (1) FOR ALARMS].
- 11 (1) 1" CONDUIT FROM BATTERY CABINET TO EQUIPMENT CABINET FOR ALARMS.

NOTE:  
BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE. ALL BENDS SHALL HAVE MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST AS NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.



1 DETAILED CONDUIT LAYOUT  
SCALE: NOT TO SCALE



- GROUNDING KEYED NOTES:
- 1 BOND TO TOWER GROUND RING
  - 2 #2 AWG BOND FROM VERTICAL H-FRAME AND ICE BRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
  - 3 EQUIPMENT BOND TO GROUND RING (TYP.).
  - 4 #2 GROUND RING
  - 5 GROUNDING ELECTRODE CONDUCTOR PER NEC
  - 6 GROUNDING ELECTRODE (TYP.)
  - 7 BOND TO COMPOUND GROUND RING
  - 8 GROUNDING ELECTRODE WITH TEST WELL

2 DETAILED GROUNDING LAYOUT  
SCALE: NOT TO SCALE



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ATC JOB NO: 14430738\_G2  
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CUSTOMER #: 5000917346 (780529)

GROUNDING PLAN AND NOTES

SHEET NUMBER:  
**E-101**  
REVISION:  
**1**

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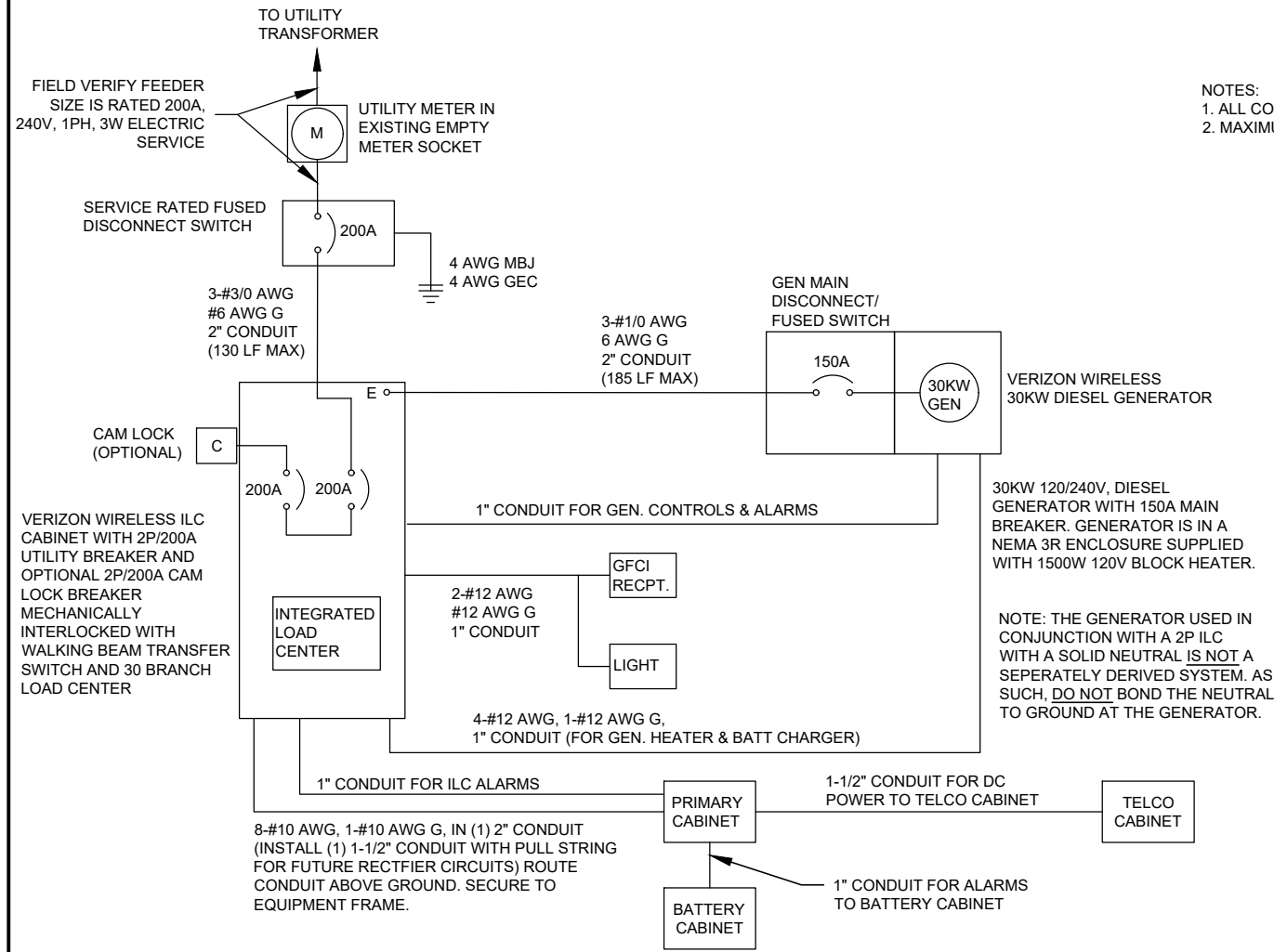
PANEL DESIGNATION: <b>VZW</b>		TYPE: LIGHTING & APPLIANCE	SYSTEM: 120/240V, 3W, 30 CKT	LOCATION: VZW LEASE AREA
		MOUNTING: SURFACE	MAIN BREAKER (MB): MLO	
		ENCLOSURE: NEMA 3R	MAIN BUS RATING: 200A	PANEL NOTES: ASCO D300L SERIES
			MIN. A.I.C. RATING: 65K	

CONNECTED LOAD (kVA)		BRIEF DESCRIPTION	FEEDER OR BRANCH CIRCUIT				FEEDER OR BRANCH CIRCUIT				CONNECTED LOAD (kVA)	
A	B		BREAKER		POLE NO.	CIRCUIT NOTES	CIRCUIT NOTES	POLE NO.	BREAKER		A	B
			AMPS	POLES					AMPS	POLES		
2.88		RECTIFIER	30	2	1			2			0.00	
	2.88				3			4				0.00
2.88		RECTIFIER	30	2	5			6			0.00	
	2.88				7			8				0.00
2.88		RECTIFIER	30	2	9			10			0.00	
	2.88				11			12				0.00
2.88		RECTIFIER	30	2	13			14			0.00	
	2.88				15			16				0.00
0.68		GFI RECEPT / LIGHT	20	1	17			18			0.00	
	1.92	GEN BLOCK HEATER	20	1	19			20				0.00
1.92		BATTERY CHARGER	20	1	21			22			0.00	
	0.00	SPACE			23			24				0.00
0.00		SPACE			25			26			0.00	
	0.00	SPACE			27			28				0.00
0.00		SPACE			29			30			0.00	
14.1	13.4										0.0	0.0
						<b>A</b>	<b>B</b>	<b>TOTAL</b>				
						14.1	13.4	27.6	CONNECTED LOAD (kVA)			
						14.1	13.4	27.6	DEMAND LOAD (kVA)		DERATING FACTOR (80%) DEMANDLOAD SIZING: 147 AMPS	

**1 PANEL SCHEDULE**

- NOTES:  
 1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.  
 2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50 FT.



**2 ELECTRICAL SINGLE LINE DIAGRAM**

- NOTES:  
 1. ALL EQUIPMENT SHALL BE NEMA 3R RATED.  
 2. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS.  
 3. CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP. (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)  
 4. WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9.  
 5. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO RMC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.



**Dewberry**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.695.3400  
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
B	PRELIM	VL	08/30/23
0	FINAL	VL	12/21/23
1	FINAL	VL	01/22/24

ATC SITE NUMBER:  
302500

ATC SITE NAME:  
BRST - BRISTOL

VERIZON SITE NAME:  
BRISTOL SW CT

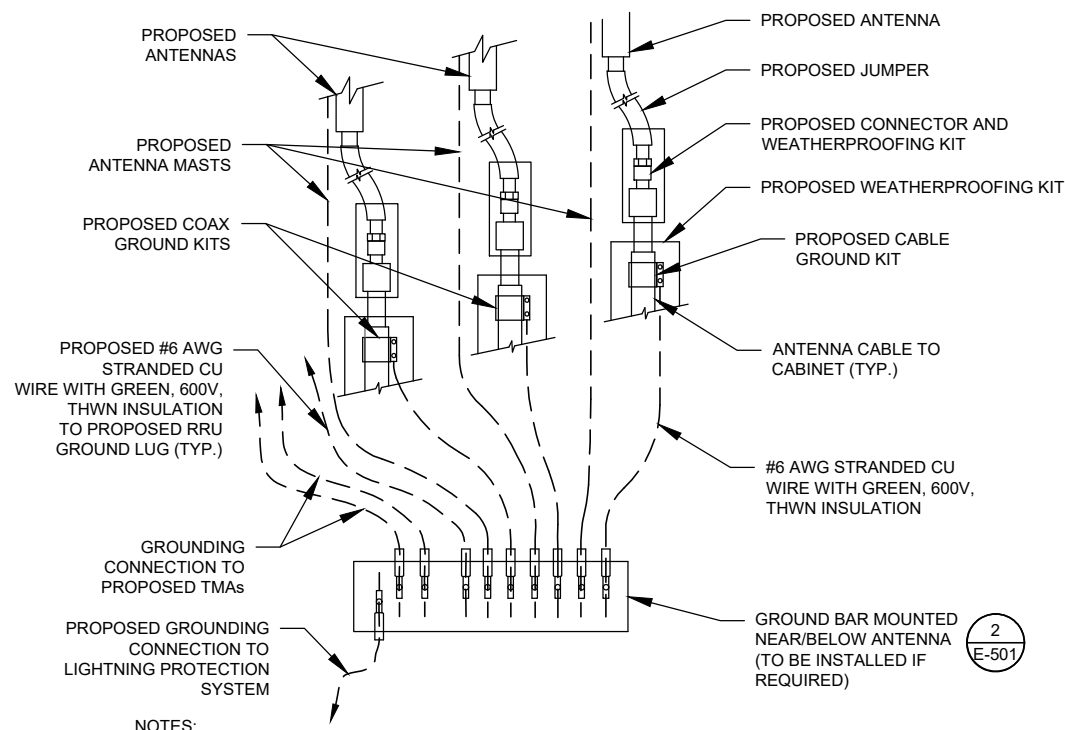
SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269



ATC JOB NO:	14430738_G2
CUSTOMER ID:	BRISTOL SW CT
CUSTOMER #:	5000917346 (780529)

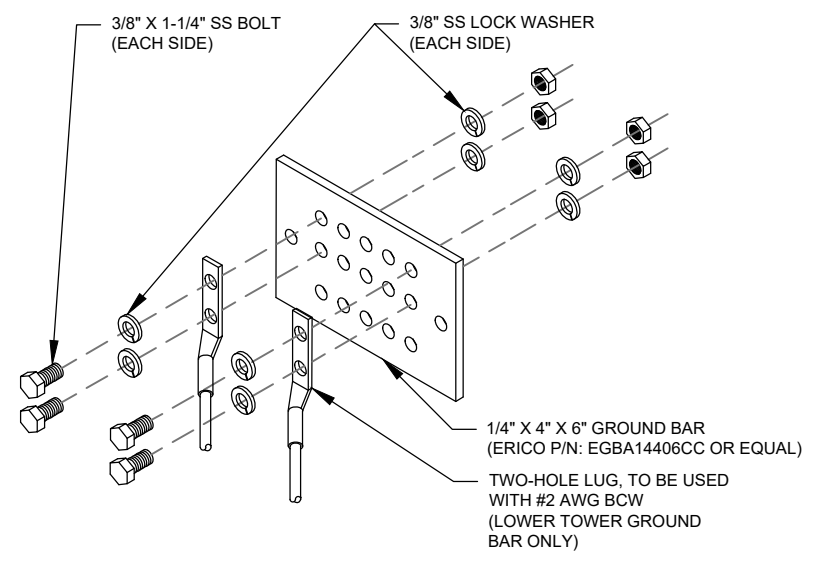
**ONE-LINE & PANEL SCHEDULE**

SHEET NUMBER: <b>E-102</b>	REVISION: <b>1</b>
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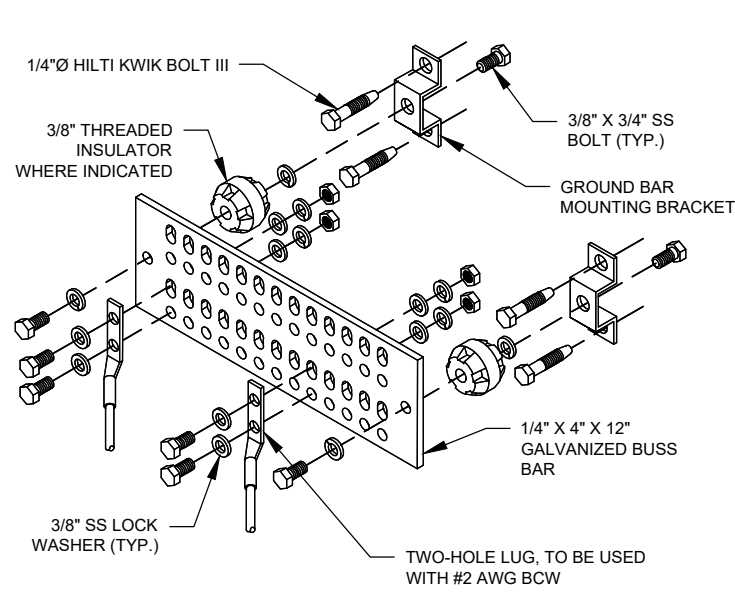
- NOTES:**
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
  2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.



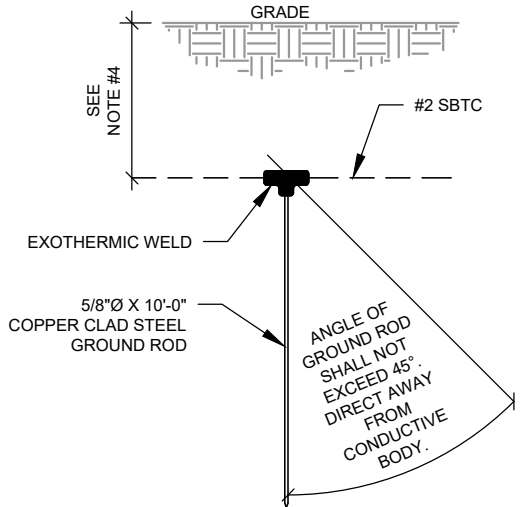
- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**2 TOWER GROUND BAR DETAIL**  
SCALE: N.T.S.



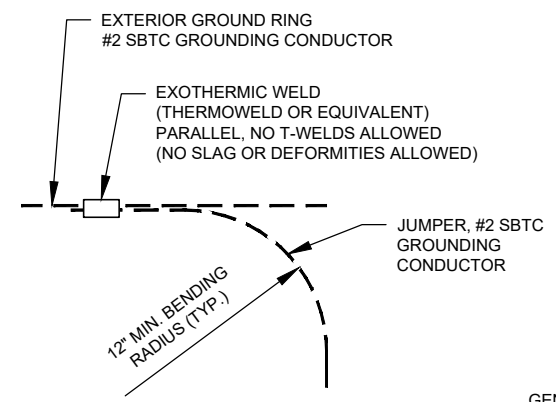
- GROUND BAR NOTES**
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

**3 MAIN GROUND BAR DETAIL**  
SCALE: N.T.S.

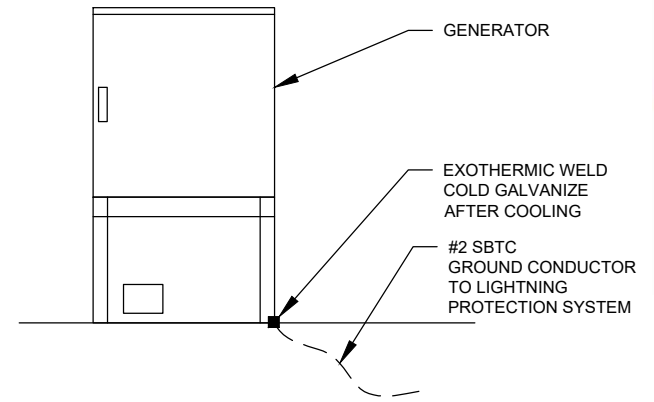


- NOTES:**
1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
  2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
  3. CONDUIT TRENCHING DEPTHS AT 36\"/>

**4 GROUND ROD DETAIL**  
SCALE: N.T.S.



**5 TIE CONNECTION DETAIL**  
SCALE: N.T.S.



- GENERATOR INSTALLATION NOTE:**
- INSTALL GENERATOR AND TRANSFER SWITCH WITH ALL SUPPLIED ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESSORIES FOR THE EXHAUST SYSTEM, FUEL SYSTEM, ENCLOSURE INTEGRITY (CAPS, PLUGS, COVERS, ETC.), ELECTRICAL CONNECTIONS, AND GROUNDING CONNECTIONS.

**6 GENERATOR GROUNDING**  
SCALE: N.T.S.



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
B	PRELIM	VL	08/30/23
0	FINAL	VL	12/21/23
1	FINAL	VL	01/22/24

ATC SITE NUMBER:  
**302500**  
ATC SITE NAME:  
**BRST - BRISTOL**  
VERIZON SITE NAME:  
**BRISTOL SW CT**  
SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269

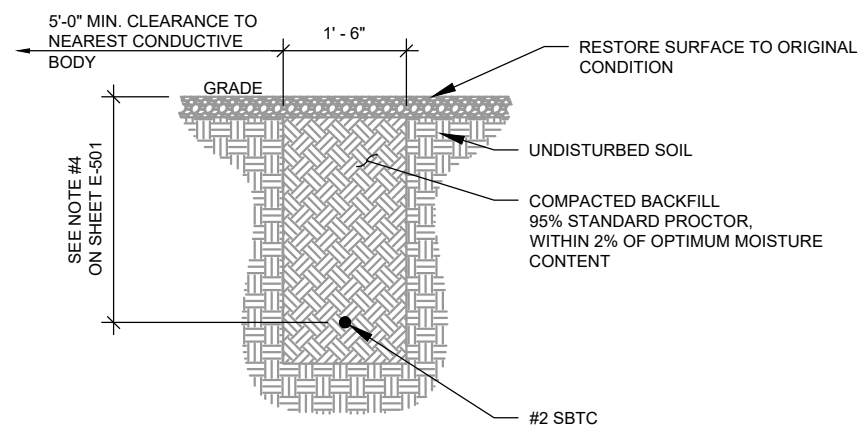


ATC JOB NO: 14430738\_G2  
CUSTOMER ID: BRISTOL\_SW\_CT  
CUSTOMER #: 5000917346 (780529)

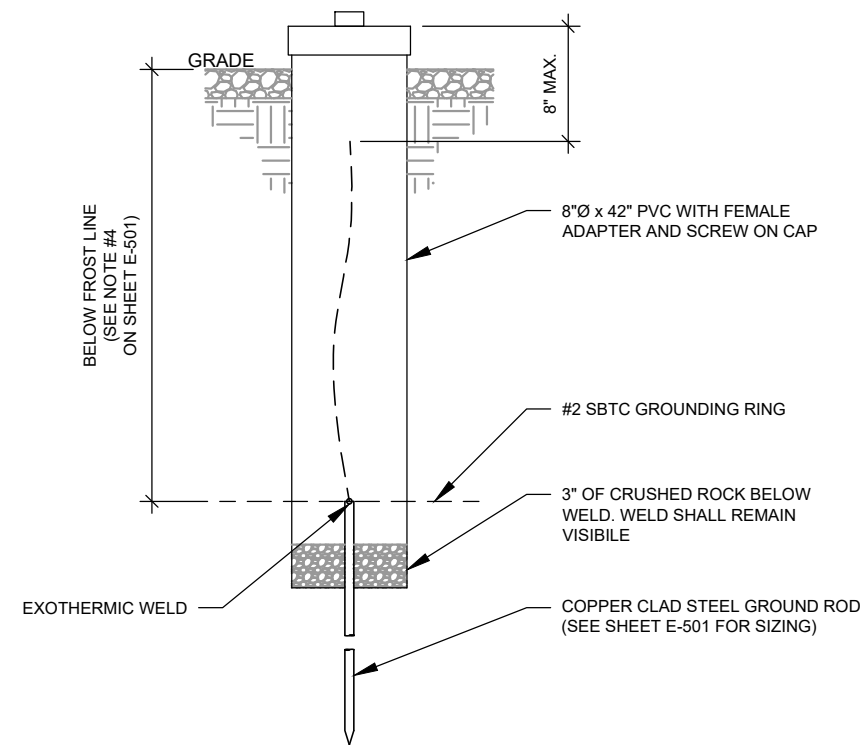
**GROUNDING DETAILS**

SHEET NUMBER:  
**E-501**  
REVISION:  
**1**

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1 GROUND CONNECTION TRENCH DETAIL (STD.)  
SCALE: NOT TO SCALE



2 TEST WELL DETAIL  
SCALE: NOT TO SCALE



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HMP	08/07/23
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0	FINAL	VL	12/21/23
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BRST - BRISTOL  
VERIZON SITE NAME:  
BRISTOL SW CT  
SITE ADDRESS:  
790 WILLIS STREET  
BRISTOL, CT 06010-7269

SEAL:



ATC JOB NO:	14430738_G2
CUSTOMER ID:	BRISTOL SW CT
CUSTOMER #:	5000917346 (780529)

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-502	1

### Equipment Summary

<b>Added</b>														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower	LTE	LTE 5G					Samsung	RF4461d-13A			PHYSICAL	3	
RRU	Tower					LTE		Samsung	RT4423-48A			PHYSICAL	3	
RRU	Tower			LTE	LTE			Samsung	B2/B66A RRH ORAN (RF4439d-25A)			PHYSICAL	3	
RRU	Tower						5G	Samsung	MT6413-77A			PHYSICAL	0	
Hybrid Cable	Tower							N/A	6x12 Hybriflex			PHYSICAL	2	
OVP Box	Tower							N/A	12 OVP			PHYSICAL	1	
<b>Removed</b>														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
No data available.														
<b>Retained</b>														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
No data available.														

### Antenna Summary

<b>Added</b>																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
					5G	Samsung	MT6413-77A	112	113.2	10(A) 190(B) 275(C)		false	PHYSICAL	3		
LTE	LTE 5G		LTE	LTE		COMMSCOPE	NHHSS-45B-R2BT4	112	115	10(A) 190(B) 275(C)		true	PHYSICAL	3		
LTE	LTE 5G	LTE				CommScope	NHH-45B-R2B	112	115	10(A) 190(B) 275(C)		true	PHYSICAL	3		
<b>Removed</b>																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
No data available.																
<b>Retained</b>																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
No data available.																

Added: 9
Removed: 0
Retained: 0

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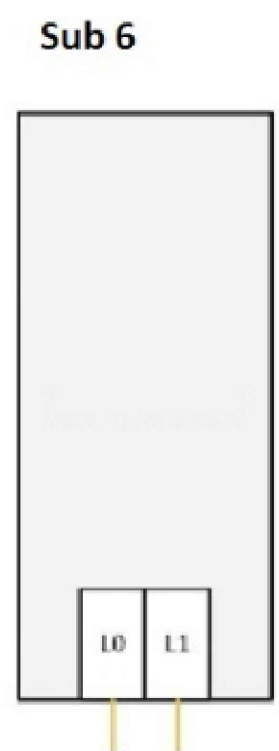
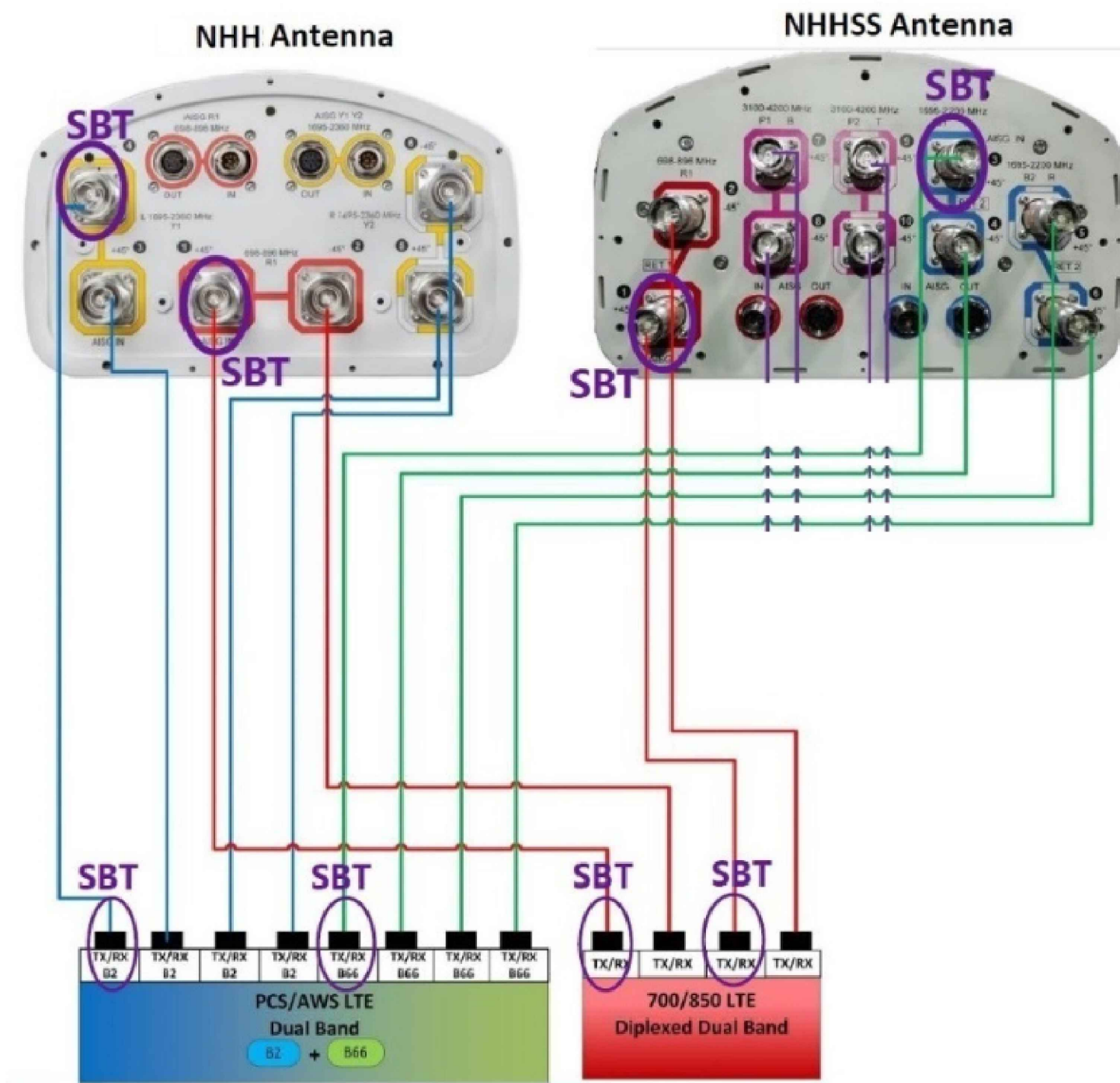
ATC JOB NO: 14430738\_G2  
 CUSTOMER ID: BRISTOL SW CT  
 CUSTOMER #: 5000917346 (780529)

SUPPLEMENTAL

SHEET NUMBER:  
**R-601**

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1 PLUMBING DIAGRAM

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ATC SITE NUMBER:  
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 ATC SITE NAME:  
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ATC JOB NO: 14430738\_G2  
 CUSTOMER ID: BRISTOL SW CT  
 CUSTOMER #: 5000917346 (780529)

SUPPLEMENTAL

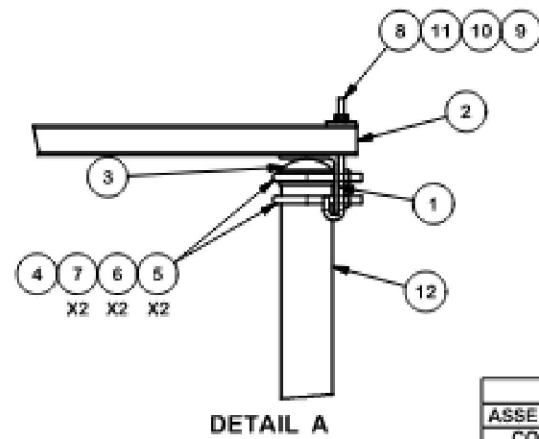
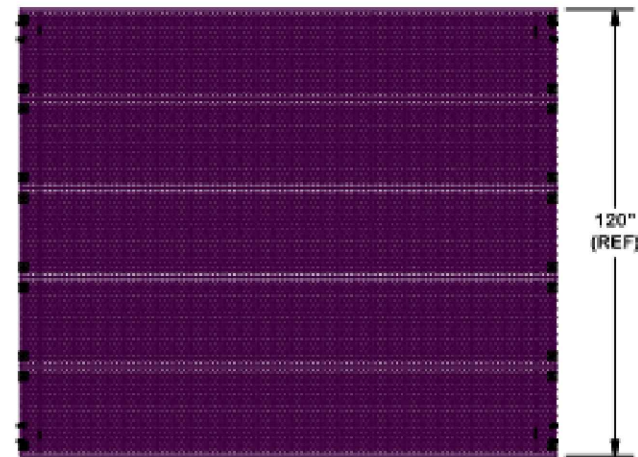
SHEET NUMBER:  
**R-602**

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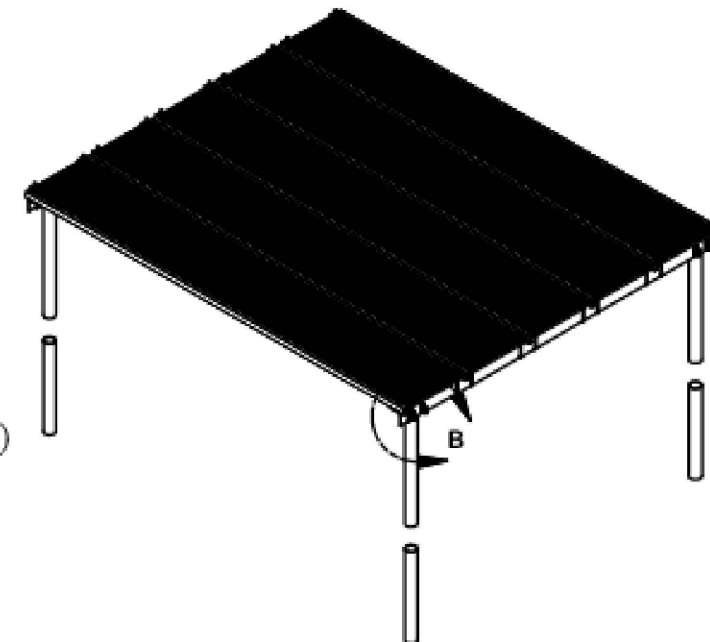
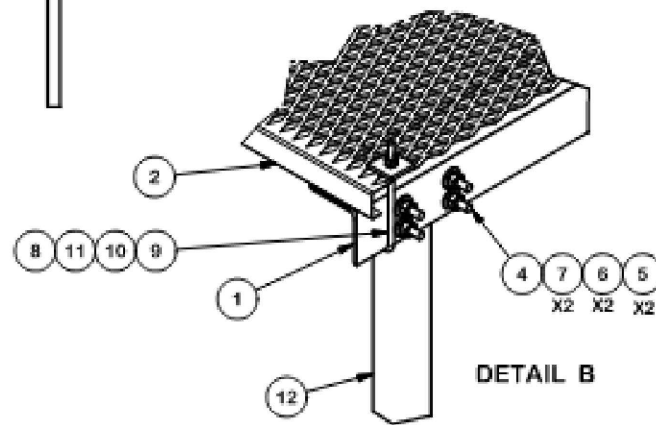
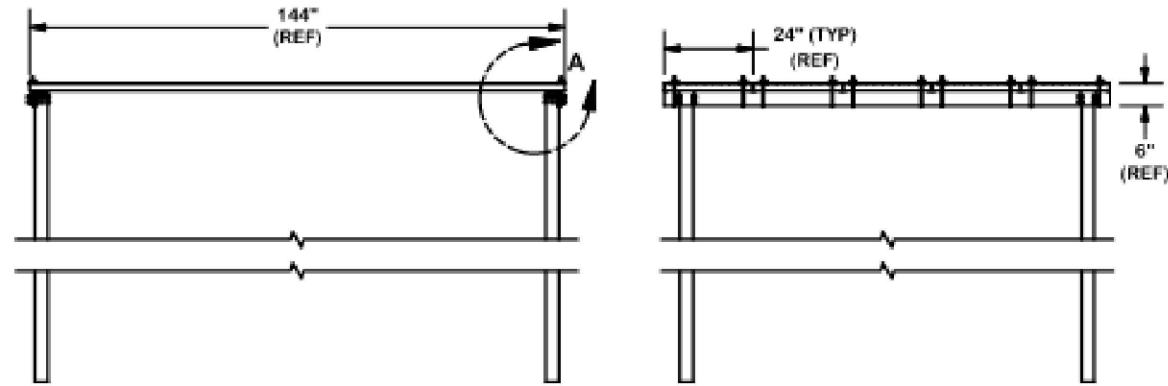
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COMMON PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-COV10	4" X 4" x 1/4" ANGLE (A36)	120 in	66.32	132.64
2	5	GRS24-12	24" X 12' GRIP SPAN BRIDGE CHANNEL		81.68	408.41
3	4	PC312	3-1/2" FENCE POST CAP		0.59	2.34
4	8	X-UB135B	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.81	6.49
5	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.14
6	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
7	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
8	20	X-JB8	X-JB8		0.33	6.55
9	20	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	0.68
10	20	G38LW	3/8" HDG LOCKWASHER		0.01	0.13
11	20	SQW38	3/8" SQUARE WASHER (GALV.)	2 in	0.27	5.46

VARIABLE PARTS LIST							
ASSEMBLY "A"	ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
COV1012 (BURIAL)	12	4	P3160	3" SCH 40 PIPE (3.5 O.D. x .216" WALL) A500	160 in	101.25	404.99
<b>TOTAL WEIGHT: 969.64</b>							

VARIABLE PARTS LIST							
ASSEMBLY "A"	ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	TOTAL WEIGHT
COV1012-B (BASE SHOE)	12	4	X-SP126	BASE SHOE PLATE PIPE COLUMN	126 in	92.98	371.93
		16	SWA585	5/8" X 5" STAINLESS WEDGE ANCHOR		.61	9.70
<b>TOTAL WEIGHT: 946.28</b>							



**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION  
**PLATFORM CANOPY**  
 12' X 10' BURIAL OR BASE SHOE



Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX  
 Engineering Support Team:  
 1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL
	KCB 8/24/2012	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 7/2/2013

PART NO.	SEE ASSEMBLY "A"
DWG. NO.	COV1012

1 OF 1  
 PAGE

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	X-COV10 TO QTY 2, ITEM 2 "-12", UPDATED LENGTH & WTS		KCB	7/1/13



ATC JOB NO: 14430738\_G2  
 CUSTOMER ID: BRISTOL SW CT  
 CUSTOMER #: 5000917346 (780529)

SUPPLEMENTAL

SHEET NUMBER:  
**R-603**