



CONTRACT DRAWINGS FOR
THE CONSTRUCTION OF

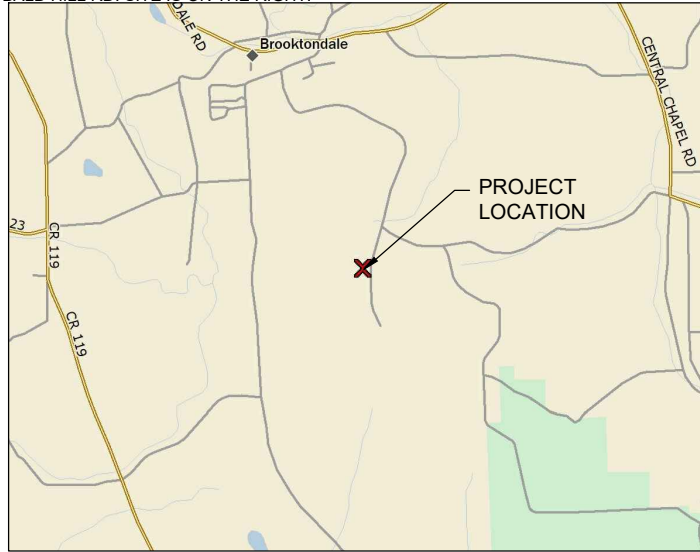
VERIZON WIRELESS
SITE NAME: BROOKTONDALE-B
PROJECT NUMBER: 20191973145
LOCATION CODE: 274102

330 BALD HILL ROAD
BROOKTONDALE, NY 14817



AERIAL MAP

DIRECTIONS TO SITE: (FROM ROCHESTER) TAKE RAMP FOR I-90 EAST TOWARD ALBANY. AT EXIT 42, TAKE RAMP RIGHT FOR RT-14 SOUTH TOWARD CLIFTON SPRINGS / GENEVA. BEAR RIGHT ONTO RT-14. TAKE RAMP LEFT. KEEP STRAIGHT ONTO RT-96. TURN RIGHT TO STAY ON RT-96 / VIRGINIA ST. TURN RIGHT TO STAY ON RT-96 / W RIVER ST. TURN LEFT TO STAY ON RT-96 / FAYETTE ST. TURN LEFT ONTO RT-96. KEEP RIGHT TO STAY ON RT-96 / E MAIN ST. ROAD NAME CHANGES TO RT-89 / RT-96 / W BUFFALO ST. TURN RIGHT ONTO RT-13 S / RT-96 S / RT-34 S / N FULTON ST. KEEP STRAIGHT ONTO RT-79 E / RT-34 S / RT-96 S / RT-13 S / S FULTON ST. TURN LEFT ONTO RT-79 E / W GREEN ST. TURN RIGHT ONTO BROOKTONDALE RD / CR-115. TURN RIGHT ONTO WHITE CHURCH RD / CR-158. TURN LEFT ONTO BALD HILL RD. SITE IS ON THE RIGHT.



VICINITY MAP



PROJECT INFORMATION

TOWER OWNER:	CITYSWITCH 1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345
SITE NAME:	BROOKTONDALE - B
SITE ADDRESS:	330 BALD HILL ROAD BROOKTONDALE, NY 14817
CITYSWITCH SITE No.:	10141753
TAX MAP #:	15-1-58
PROPERTY SIZE:	40 ACRES
ZONING DISTRICT:	AR - "AGRICULTURAL - RESIDENTIAL"
LATITUDE:	N 42° 21' 54.03" (42.365008°)
LONGITUDE:	W 76° 23' 1.54" (-76.383761°)
GROUND ELEVATION:	1630.5± AMSL
ZONING JURISDICTION:	TOWN OF CAROLINE
COUNTY:	TOMPKINS
TYPE OF SITE:	EXISTING MONOPOLE
RAD CENTER:	160'-0"
OVERALL HEIGHT:	199'-0" (195'-0" TOWER WITH 4'-0" LIGHTNING ROD)
DESCRIPTION OF WORK:	INSTALL TWO (2) PROPOSED ANTENNAS PER SECTOR (TOTAL OF 6) INSTALL EQUIPMENT CABINETS AND GENERATOR IN AN EXISTING FENCE COMPOUND.

PROJECT DIRECTORY

APPLICANT:	BELL ATLANTIC MOBILE SYSTEMS, LLC. d/b/a VERIZON WIRELESS 1275 JOHN ST, SUITE 100 WEST HENRIETTA, NY 14586
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CIVIL ENGINEERING FIRM:	C&S ENGINEERS INC. 499 COL. EILEEN COLLINS BLVD. SYRACUSE, NY 13212
CONTACT:	ERIC N. KENNA P.E.
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POWER COMPANY:	NYSEG
PHONE:	(800) 572-1111
TELEPHONE COMPANY:	VERIZON COMMUNICATIONS
PHONE:	(800) 837-4966

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.



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WEBSITE: HTTP://WWW.DIGSAFELYNEWYORK.COM

DRAWING LIST

SHEET NO.	SHEET NAME	REV	DATE
GENERAL			
G-001	TITLE SHEET	2	7-7-20
G-002	GENERAL NOTES	2	7-7-20
G-003	GENERAL NOTES	2	7-7-20
CIVIL			
C-100	OVERALL SITE PLAN	2	7-7-20
C-101	COMPOUND PLAN	2	7-7-20
C-201	TOWER ELEVATION AND ANTENNA SCHEDULES	2	7-7-20
C-501	DETAILS	2	7-7-20
C-502	EQUIPMENT DETAILS	2	7-7-20
C-503	DETAILS	2	7-7-20
C-504	SIGNAGE DETAILS	2	7-7-20
C-505	EQUIPMENT FOUNDATION DETAILS	2	7-7-20
C-506	EQUIPMENT PIER DETAILS	2	7-7-20
ELECTRICAL			
E-101	GROUNDING PLAN AND NOTES	2	7-7-20
E-501	POWER AND TELCO ONE-LINE DIAGRAMS	2	7-7-20
E-502	GROUNDING RISER DIAGRAM	2	7-7-20
E-503	GROUNDING DETAILS	2	7-7-20
E-504	GROUNDING DETAILS	2	7-7-20

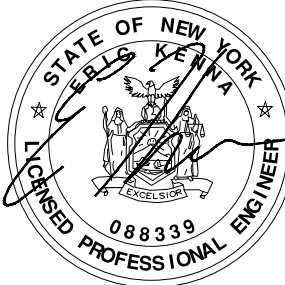
APPROVALS

VERIZON PROJECT MANAGER

DATE

C&S PROJECT: F42.001.011

JUNE 2020



TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF
THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ARE IN
COMPLIANCE WITH THE NEW YORK STATE ENERGY
CONSERVATION CONSTRUCTION CODE AND THE BUILDING
CODE OF NEW YORK STATE

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED
UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK
STATE EDUCATION LAW

G-001

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B					
A					

1		2		3		4	
		GROUNDING NOTES:		1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - VERIZON WIRELESS		ABBREVIATIONS AC ALTERNATING CURRENT AGL ABOVE GRADE LEVEL AIC AMPERAGE INTERRUPTION CAPACITY ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BCW BARE COPPER WIRE BTC BARE TINNED COPPER CONDUCTOR BTS BASE TRANSCEIVER STATION BATT BATTERY CHG CHARGING COMM COMMON DC DIRECT CURRENT DIA DIAMETER DWG DRAWING (E) EXISTING EC ELECTRICAL CONDUCTOR EG EQUIPMENT GROUND EGR EQUIPMENT GROUND RING EMT ELECTRICAL METALLIC TUBING FIF FACILITY INTERFACE FRAME GEN GENERATOR GPS GLOBAL POSITIONING SYSTEM GSM GLOBAL SYSTEM FOR MOBILE HVAC HEAT/VENTALATION/AIR CONDITIONING IGR INTERIOR GROUNDING RING (HALO) MGB MASTER GROUNDING BAR MIN MINIMUM M/W MICROWAVE MTS MANUAL TRANSFER SWITCH NEC NATIONAL ELECTRICAL CODE N.T.S. NOT TO SCALE OC ON CENTER PP POLARIZING PERSERVING PCJ PRIMARY CONTROL UNIT PDJ PROTOCOL DATA UNIT RBS RADIO BASE STATION RECT RECTIFIER REF REFERENCE REQ REQUIRED RET REMOTE ELECTRICAL TILT RF RADIO FREQUENCY RMC RIGID METALLIC CONDUIT RRH REMOTE RADIO HEAD RRU REMOTE RADIO UNIT RWY RACEWAY SIAD SMART INTEGRATED ACCESS DEVICE T.B.D. TO BE DETERMINED T.B.R. TO BE RESOLVED TDMA TIME-DIVISION MULTIPLE ACCESS TMA TOWER MOUNT AMPLIFIER TVSS TRANSIENT VOLTAGE SUPPRESSION SYSTEM TYP TYPICAL UMTS UNIVERSAL MOBILE TELECOMMUNICATION SYSTEM	
		1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.		2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.			
		2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.		3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.			
		3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.		4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.			
		4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.		5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.			
		5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.		6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.			
		6. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.		7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.			
		7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.		8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.			
		8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.		9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.			
		9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.		10. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.			
		10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.		11. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.			
		11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.		12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.			
		12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS. EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE, EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.		13. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.			
		13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.		14. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.			
		14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.		15. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.			
		15. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.		16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.			
		16. ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.		17. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.			
		17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.		18. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.			
		18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.		19. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.			
		19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.		20. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.			
A1		A2		A3		A4	
CONCRETE AND REINFORCING STEEL NOTES		GROUNDING NOTES		GENERAL NOTES		ABBREVIATIONS	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	
1		2		3		4	



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VERIZON WIRELESS
SITE NAME: BROOKTONDALE-B
PROJECT NO.: 20191973145
LOCATION CODE: 274102
330 BALD HILL ROAD
BROOKTONDALE, NY 14817

2	7-7-20	# OF ANTENNA CABLES
1	6-24-20	ISSUED FOR PERMITTING
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: F42.001.011		
DATE: JUNE 2020		
DRAWN BY: J. OSWALD		
DESIGNED BY: -		
CHECKED BY: E.N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GENERAL NOTES

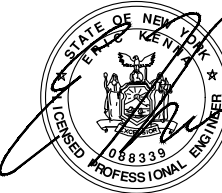
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C	ELECTRICAL INSTALLATION NOTES:		ELECTRICAL INSTALLATION NOTES (CONTINUED):	22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.	23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.	24. NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.	25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.	26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.	27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.	28. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.	29. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.	30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.	31. 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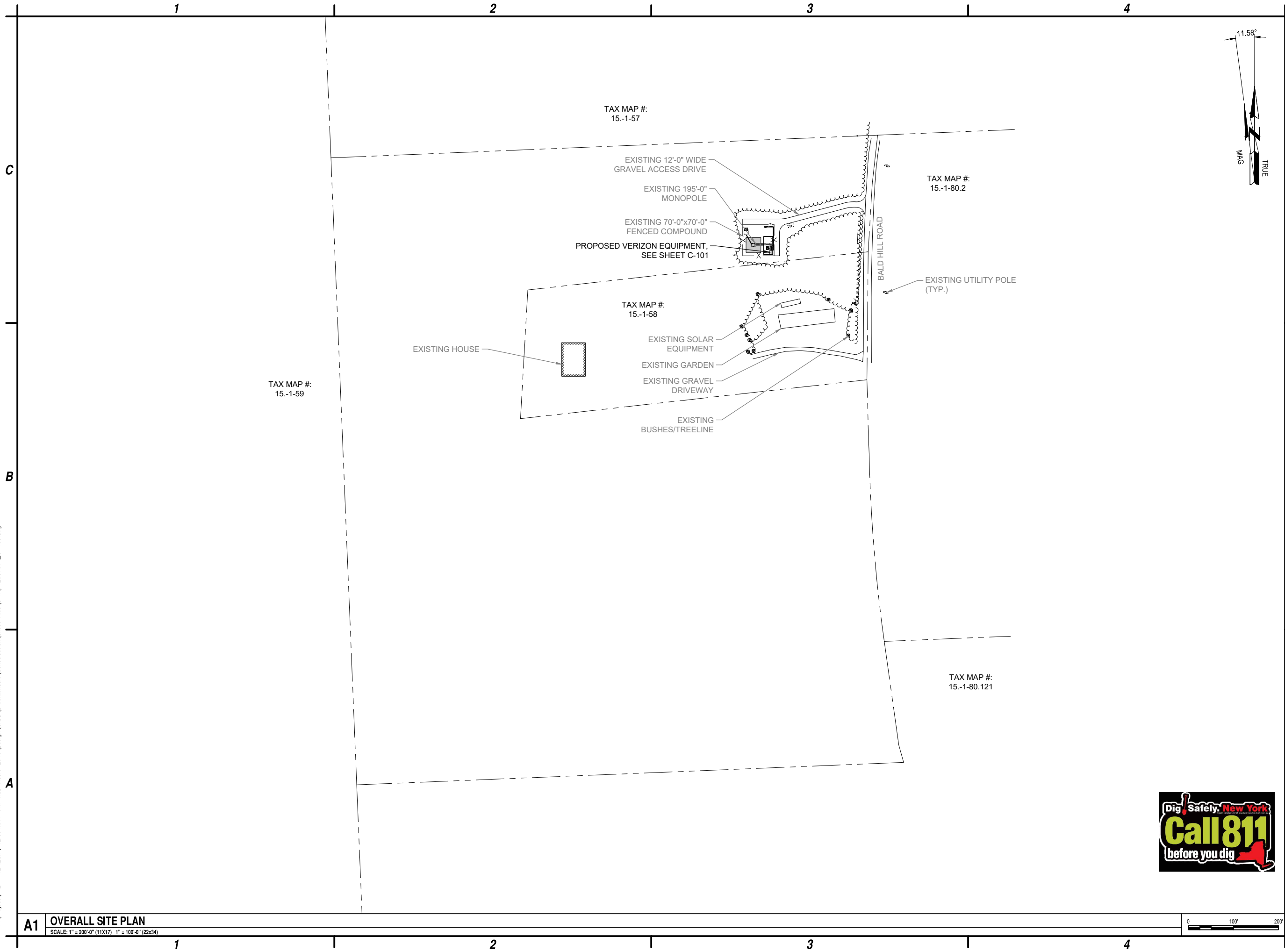
VERIZON WIRELESS
SITE NAME: BROOKTONDALE-B
PROJECT NO.: 20191973145
LOCATION CODE: 274102
330 BALD HILL ROAD
BROOKTONDALE, NY 14817

2	7-7-20	# OF ANTENNA CABLES
1	6-24-20	ISSUED FOR PERMITTING
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: F42.001.011		
DATE: JUNE 2020		
DRAWN BY: J. OSWALD		
DESIGNED BY: -		
CHECKED BY: E.N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GENERAL NOTES

G-003

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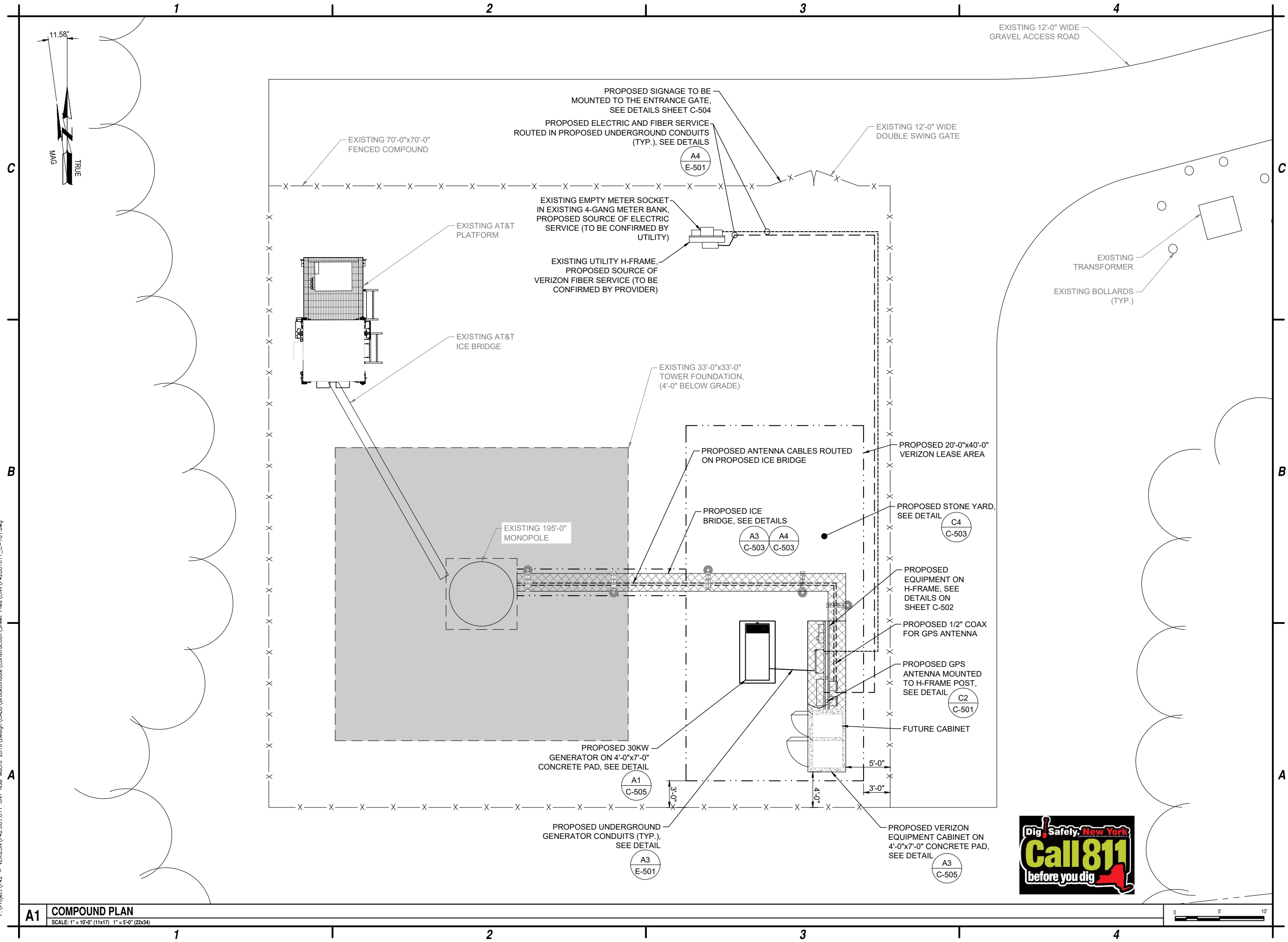
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OVERALL
SITE PLAN

C-100

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A1 COMPOUND PLAN
SCALE: 1" = 10'-0" (11x17) 1" = 5'-0" (22x34)



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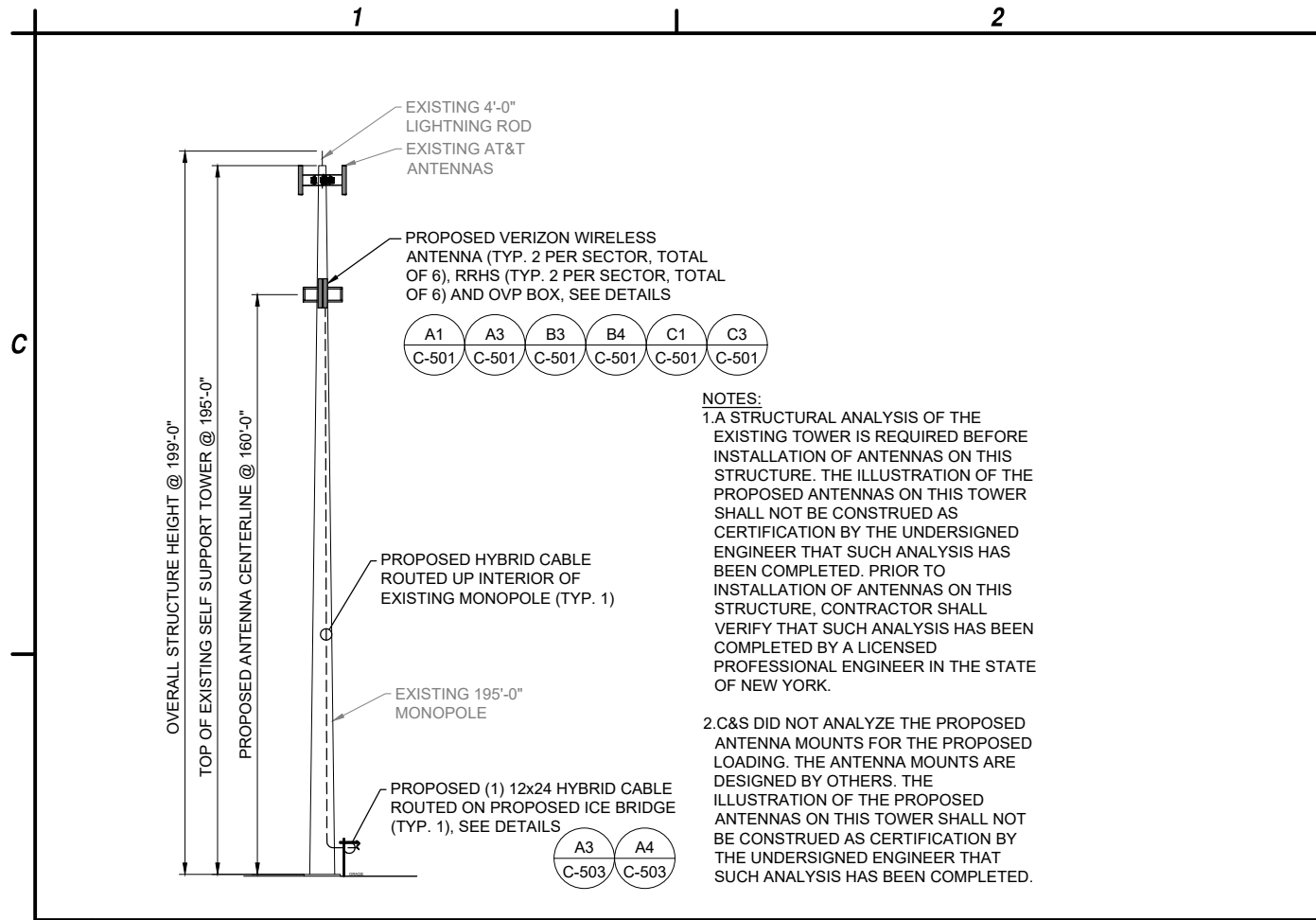
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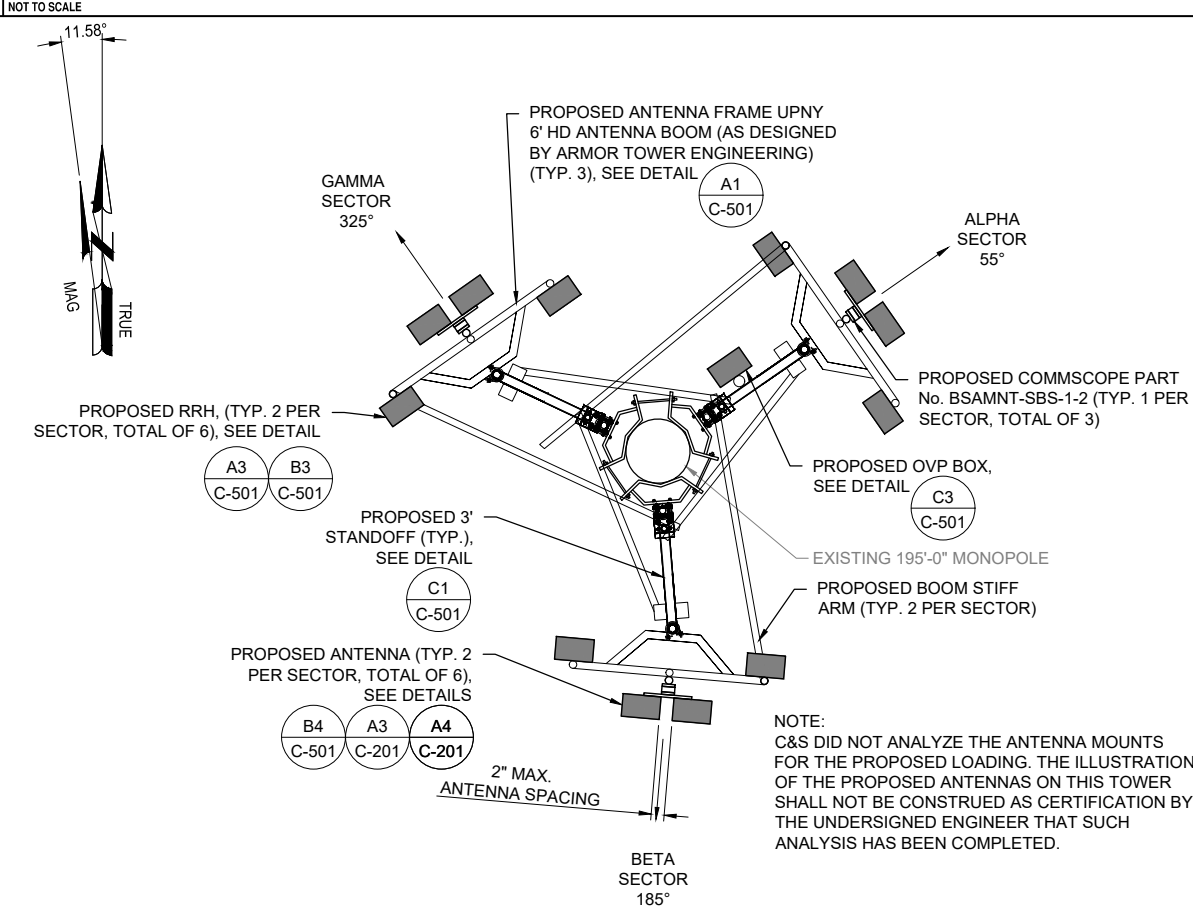
COMPOUND PLAN

C-101

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B1 TOWER ELEVATION



A1 ANTENNA LAYOUT PLAN

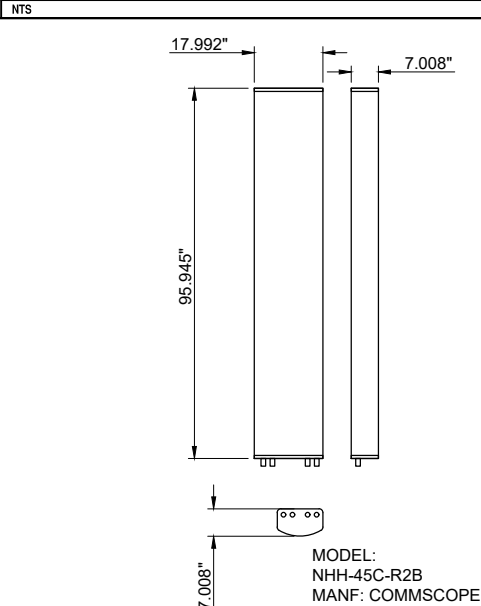
ANTENNA AND COAXIAL SCHEDULE										
SECTOR	STATUS	ANTENNA	ANTENNA DATA	MECHANICAL DOWN TILT	ELECTRICAL DOWN TILT	AZIMUTH (TRUE NORTH)	# OF ANTENNAS PER SECTOR	ANTENNA HEIGHT (AGL)	COAXIAL CABLE	CABLE LENGTH
ALPHA	PROPOSED	LTE/PCS	95.945" x 17.992" x 7.008", 87.1 LBS	2°	5°	55°	1	160'-0"	JUMPER FROM RRH	8±
ALPHA	PROPOSED	AWS/LTE	95.945" x 17.992" x 7.008", 87.1 LBS	2°	2°	55°	1	160'-0"	JUMPER FROM RRH	8±
BETA	PROPOSED	LTE/PCS	95.984" x 11.85" x 7.087", 51.6 LBS	2°	4°	185°	1	160'-0"	JUMPER FROM RRH	8±
BETA	PROPOSED	AWS/LTE	95.984" x 11.85" x 7.087", 51.6 LBS	2°	2°	185°	1	160'-0"	JUMPER FROM RRH	8±
GAMMA	PROPOSED	LTE/PCS	95.984" x 11.85" x 7.087", 51.6 LBS	2°	4°	325°	1	160'-0"	JUMPER FROM RRH	8±
GAMMA	PROPOSED	AWS/LTE	95.984" x 11.85" x 7.087", 51.6 LBS	2°	2°	325°	1	160'-0"	JUMPER FROM RRH	8±

NOTE:
1. CONTRACTOR TO TAG COAX CABLE AT BOTH ENDS WITH ANTENNA DESIGNATION AS PER COLOR CODING SHEET PROVIDED BY VERIZON WIRELESS AND AS DIRECTED BY VERIZON WIRELESS EQUIPMENT ENGINEER.

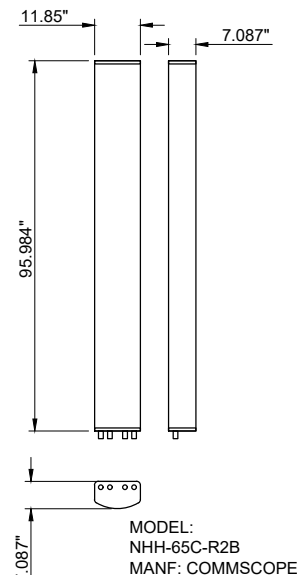
RRH/OVP AND HYBRID SCHEDULE							
SECTOR	STATUS	UNITS	UNIT DATA	# OF UNITS	CABLE TYPE	# OF CABLES	CABLE LENGTH
ALPHA	PROPOSED	12 CIRCUIT OVP	19.18" x 15.73" x 10.25", 32.0 LBS	1	HYBRIFLEX	1	190±
ALPHA	PROPOSED	700/850 RRH	15" x 15" x 8.1", 70.3 LBS	1	POWER/FIBER CABLE FROM OVP	1	10±
ALPHA	PROPOSED	AWS/PCS RRH	15" x 15" x 10", 84.4 LBS	1	POWER/FIBER CABLE FROM OVP	1	10±
BETA	PROPOSED	700/850 RRH	15" x 15" x 8.1", 70.3 LBS	1	POWER/FIBER CABLE FROM OVP	1	25±
BETA	PROPOSED	AWS/PCS RRH	15" x 15" x 10", 84.4 LBS	1	POWER/FIBER CABLE FROM OVP	1	25±
GAMMA	PROPOSED	700/850 RRH	15" x 15" x 8.1", 70.3 LBS	1	POWER/FIBER CABLE FROM OVP	1	25±
GAMMA	PROPOSED	AWS/PCS RRH	15" x 15" x 10", 84.4 LBS	1	POWER/FIBER CABLE FROM OVP	1	25±

NOTE:
ANTENNA AND HYBRIFLEX CABLE SCHEDULE BASED ON AN RF ANTENNA DESIGN SHEET DATED 2/28/20, RFDS PROJECT ID 16107216.

B3 ANTENNA SCHEDULES



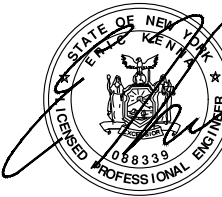
A3 PANEL ANTENNA (ALPHA SECTOR)



A4 PANEL ANTENNA (BETA & GAMMA SECTORS)



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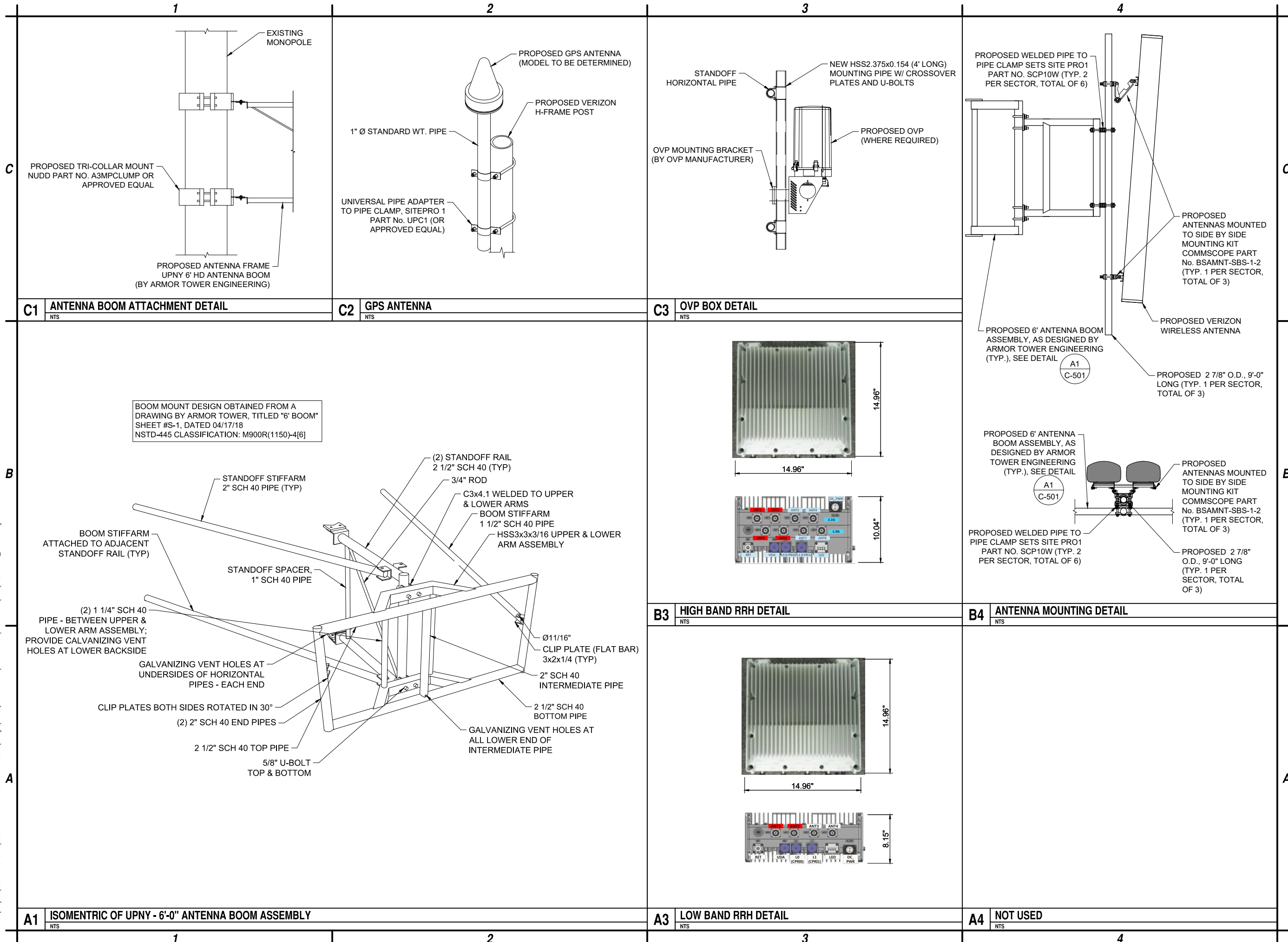
VERIZON WIRELESS
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TOWER ELEVATION
AND
ANTENNA SCHEDULES

C-201

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VERIZON WIRELESS
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BROOKTONTDALE, NY 14817

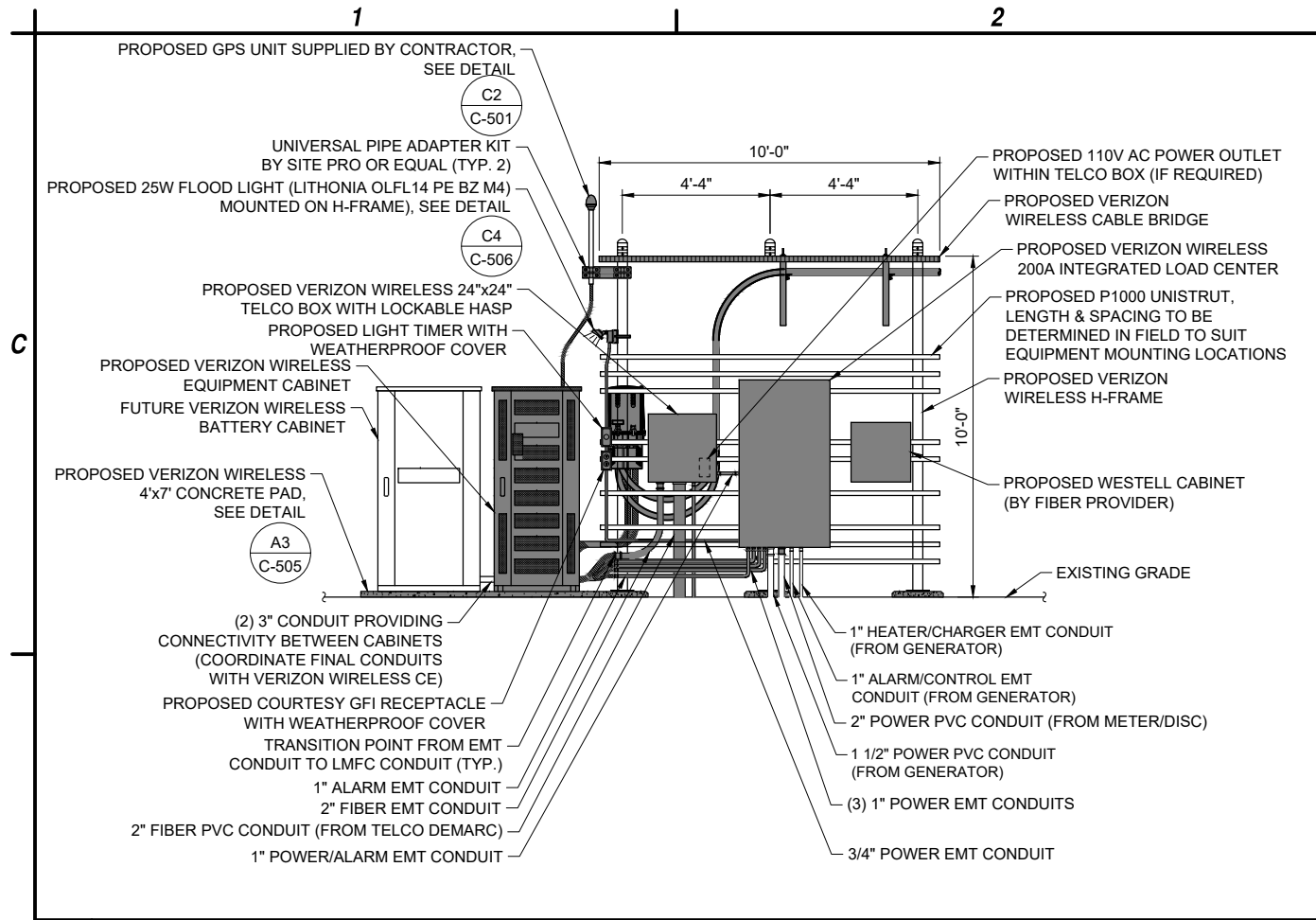
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DETAILS

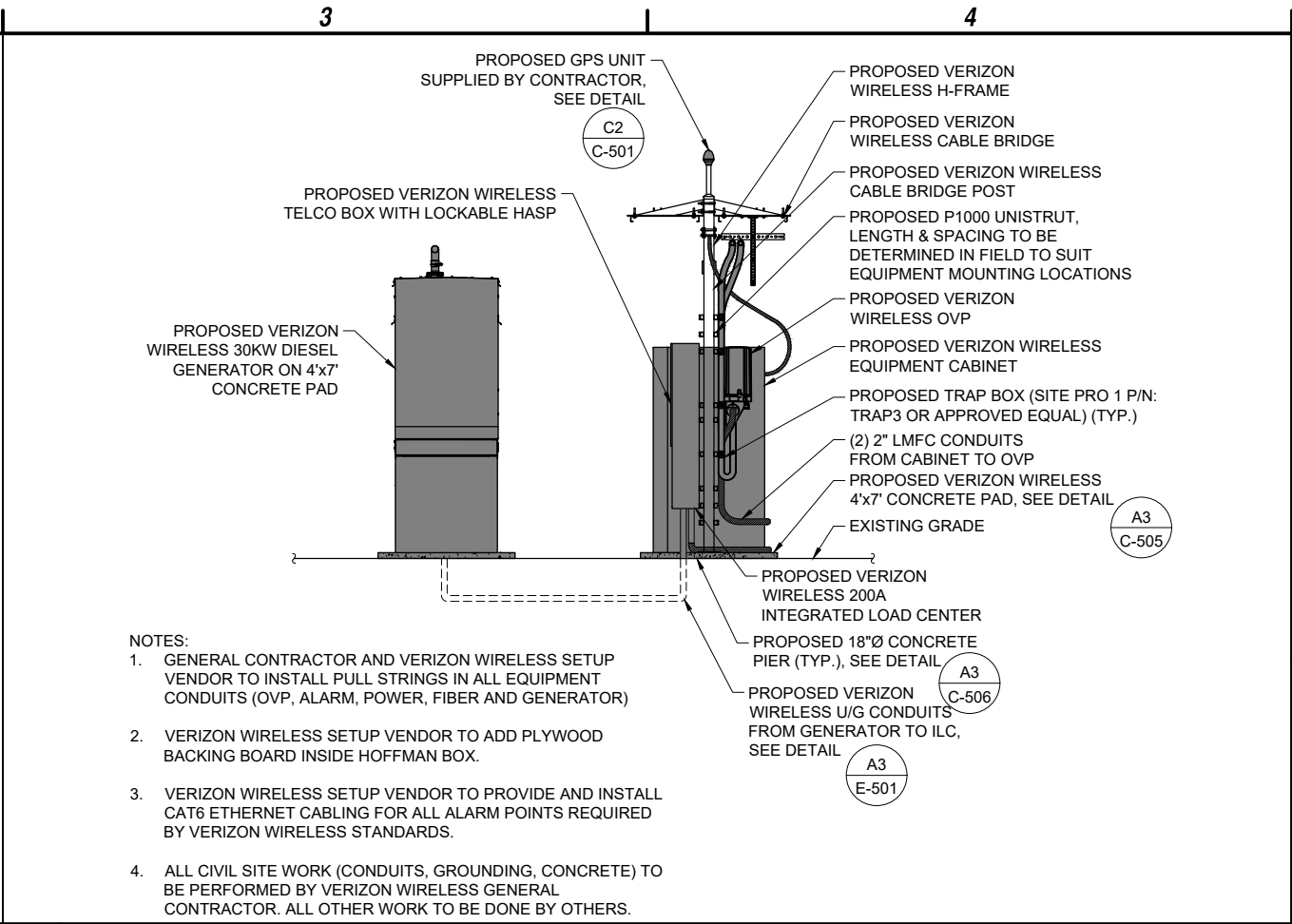
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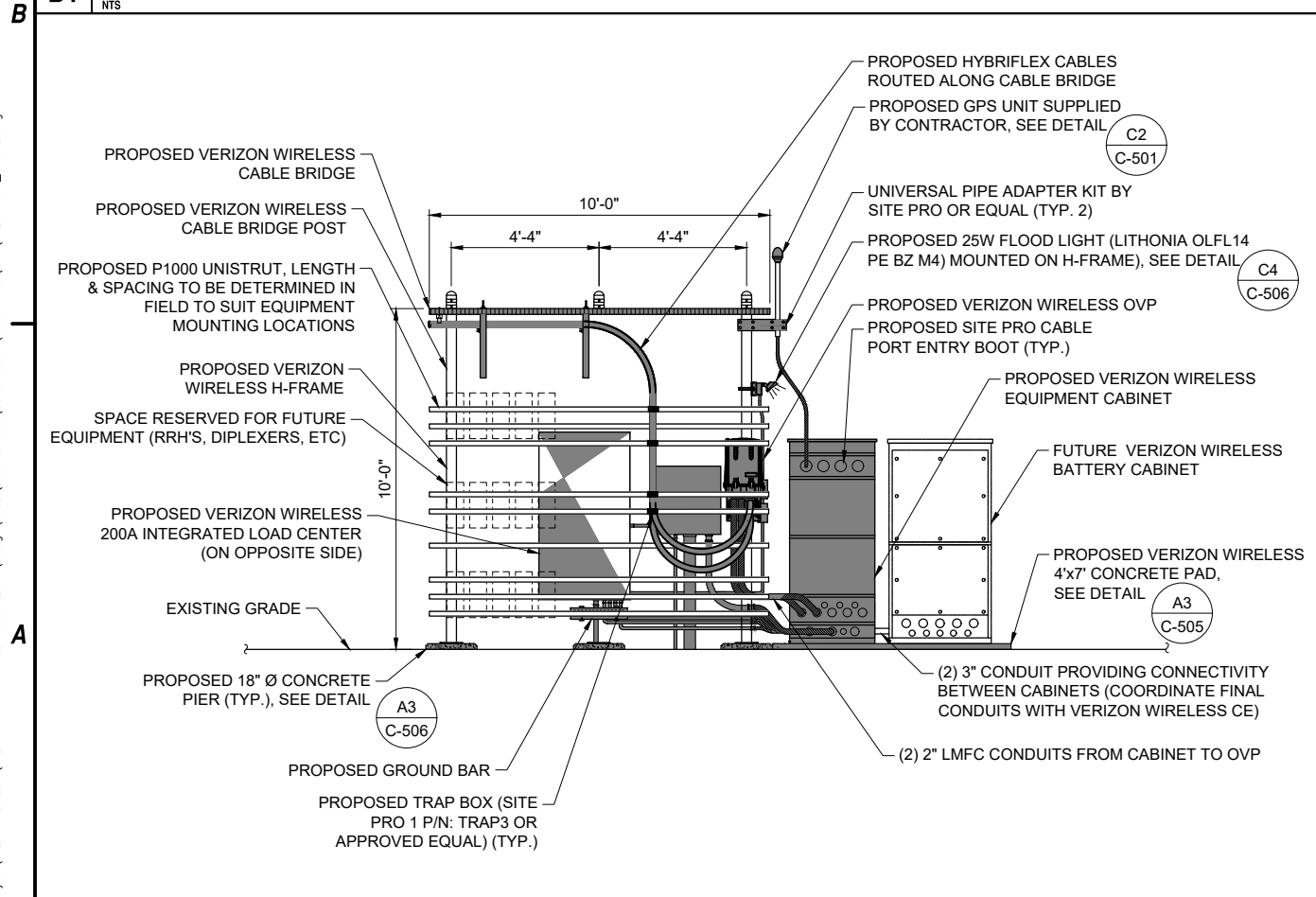
B1 FRONT ELEVATION

NTS



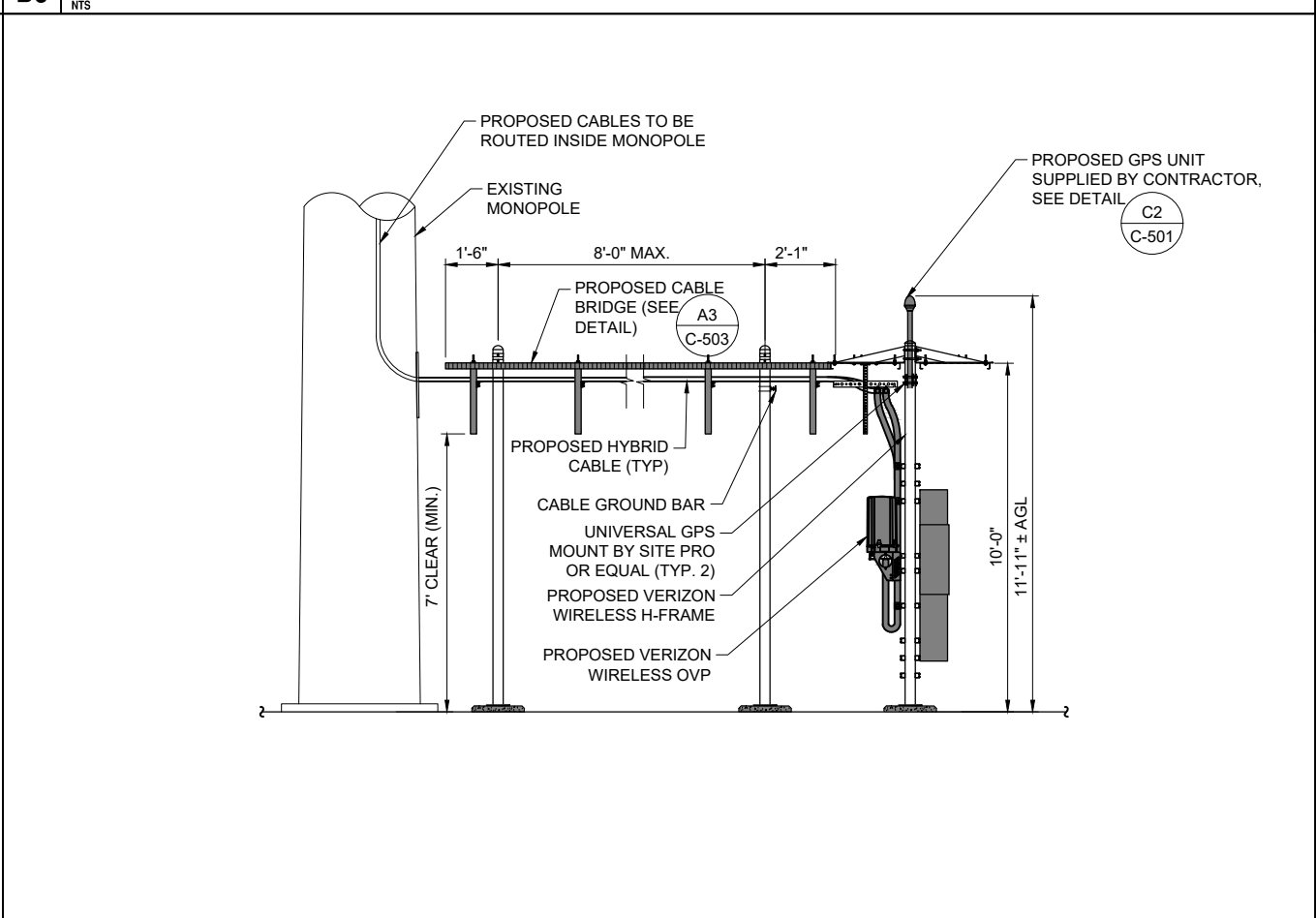
B3 SIDE ELEVATION

NTS



A1 REAR ELEVATION

NTS

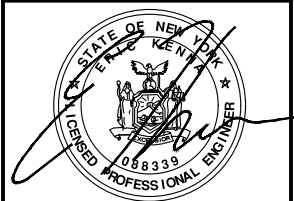


A3 EQUIPMENT ELEVATION

NTS

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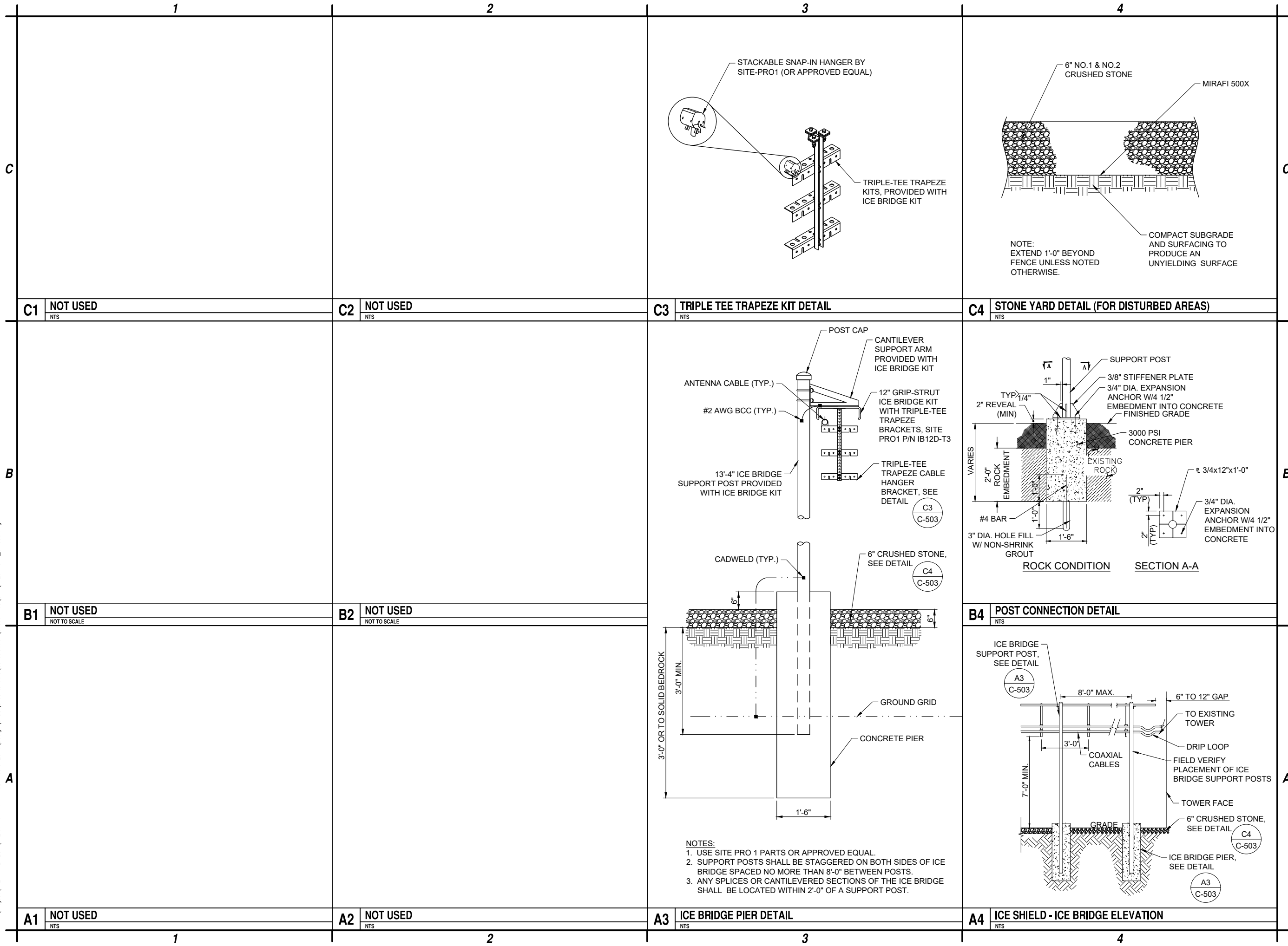
VERIZON WIRELESS
SITE NAME: BROOKTONDALE-B
PROJECT NO.: 20191973145
LOCATION CODE: 274102
330 BALD HILL ROAD
BROOKTONDALE, NY 14817

REVISIONS		
MARK	DATE	DESCRIPTION
2	7-7-20	# OF ANTENNA CABLES
1	6-24-20	ISSUED FOR PERMITTING
PROJECT NO: F42.001.011		
DATE: JUNE 2020		
DRAWN BY: J. OSWALD		
DESIGNED BY:		
CHECKED BY: E.N. KENNA, P.E.		
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EQUIPMENT DETAILS

C-502

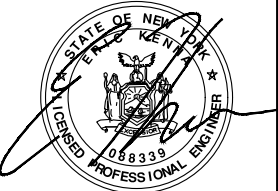
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DETAILS

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						NFPA 704 HAZARD IDENTIFICATION 10"x10" DIAMOND.			
C	<div><div><div><div><div></div><div>DANGER</div></div><div><div><div></div><div></div><div></div></div><div>NO SMOKING</div></div></div></div><div>72 POINT HELVETICA (3⁄8") RED LETTERING WHITE BACKGROUND</div></div>		<div>DIESEL</div> <div>(GREEN LETTERING, WHITE BACKGROUND)</div>		<div>COMBUSTIBLE</div> <div>(RED LETTERING, WHITE BACKGROUND)</div>		<div>FLAMMABLE</div> <div>(RED LETTERING, WHITE BACKGROUND)</div>		
			<div>NO SMOKING</div> <div>(RED LETTERING, WHITE BACKGROUND)</div>				<div>HAZARD RATINGS:</div> <div><div>NINE O'CLOCK - HEALTH</div><div>TWELVE O'CLOCK - FLAMMABILITY</div><div>THREE O'CLOCK - INSTABILITY</div><div>SIX O'CLOCK - SPECIAL</div></div> <div><div>(BLUE BACKGROUND, BLACK LETTERING)</div><div>(RED BACKGROUND, BLACK LETTERING)</div><div>(YELLOW BACKGROUND, BLACK LETTERING)</div><div>(WHITE BACKGROUND, BLACK LETTERING)</div></div>		
							<div><div><div><div></div><div>2</div><div>0</div><div>0</div></div></div></div>		
C1	SIGNAGE DETAILS								
							NTS		
B	<div>SIGN SPECIFICATIONS:</div> <div><div>1.</div><div>THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL FIELD VERIFY THE EXISTENCE AND CONDITION OF SIGNS ON CO-LOCATE SITES. ANY SIGNS THAT ARE MISSING OR DETERMINED TO BE IN NEED OF REPLACEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS UNLESS OSHA APPROVED STANDARD SIGNS CAN BE USED.</div></div> <div><div>2.</div><div>ALL SIGNS SHOULD BE UV-RESISTANT FOR OUTDOOR USE.</div></div> <div><div>3.</div><div>ALL SIGNS SHOULD HAVE A MINIMUM 5-YEAR GUARANTEE WITHOUT SHOWING ANY SIGNS OF DEGRADATION.</div></div> <div><div>4.</div><div>ALL SIGNS SHALL HAVE ROUNDED CORNERS AND WEATHER PROOF PRESSURE SENSITIVE ADHESIVE BACKING FOR MOUNTING PURPOSES.</div></div> <div><div>5.</div><div>ALL SIGNS SHALL BE PROVIDED PER THE REQUIREMENTS CONTAINED IN THIS DRAWING PACKAGE.</div></div> <div><div>6.</div><div>ALL SIGNS TO HAVE LETTERS PAINTED, PRINTED OR ENGRAVED. NO STICKERS.</div></div> <div><div>7.</div><div>COLOR UNLESS OTHERWISE SPECIFIED: BLACK LETTERING ON WHITE BACKGROUND EXCEPTION: RED LETTERING FOR "DANGER" AND "CAUTION" SIGNS.</div></div> <div><div>8.</div><div>CONTRACTOR MUST VERIFY ALL SITE SIGNAGE WITH CONSTRUCTION PROJECT MANAGER PRIOR TO ORDERING ANY SIGNS.</div></div> <div>SIGNS:</div> <div><div>1.</div><div><div><div>DANGER NO SMOKING SIGN:</div><div>A. THIS SIGN SHOULD BE MADE OF 8½"x11" 60-MIL THICK WHITE PLASTIC. LETTERING AND COLORING SHALL BE PER OSHA 1910.145: REGULATION OF ACCIDENT PREVENTION SIGNS AND TAGS.</div><div>B. THIS SIGN SHALL BE POSTED ON INSIDE OF FENCE FACING TOWARD THE SITE.</div><div>C. THE SIGN SHALL READ: "DANGER NO SMOKING"</div></div></div></div> <div>NOTES: (DIESEL, COMBUSTIBLE, FLAMMABLE, AND NO SMOKING)</div> <div><div>1.</div><div>SIGNS MUST BE OF DURABLE MATERIAL WITH RED LETTERING ON A WHITE BACKGROUND.</div></div> <div><div>2.</div><div>LETTERS SHALL NOT BE LESS THAN 3 INCHES (76.2mm) MIN IN HEIGHT AND 1/2" (12.7mm) IN STROKE.</div></div> <div><div>3.</div><div>SIGNS SHALL NOT BE OBSCURED OR REMOVED AND SHALL BE IN ENGLISH AS A PRIMARY LANGUAGE.</div></div> <div><div>4.</div><div>COMBUSTIBLE SIGN MAY ALSO BE WHITE LETTERS ON RED BACKGROUND.</div></div> <div><div>5.</div><div>SIGNS TO BE PLACED ON GENERATOR/FUEL TANK PER NEPA 704.</div></div> <div><div>6.</div><div>CONTRACTOR TO PROVIDE ALL REQUIRED SIGNAGE.</div></div>							<div><div><div><div>IN CASE OF EMERGENCY CALL 800-852-2671 IVR UPON ENTRY SITE NO. _____ STATE _____ SWITCH _____</div></div></div><div>40 POINT HELVETICA (3⁄8") BLACK LETTERING WHITE BACKGROUND</div></div>	
								NTS	
A	<div><div><div><div>NOTICE</div><div><div></div></div><div>Radio frequency fields beyond this point may exceed the FCC general public exposure limit. Obey all posted signs and site guidelines for working in radio frequency environments.</div><div><small>In accordance with Federal Communications Commission rules on radio frequency emissions, FCC 01-684, 1-10-03a.</small></div></div></div></div> <div>7"x10" OUTDOOR DURABLE PLASTIC</div>							<div>B3</div> <div>EMERGENCY CALL SIGNAGE</div>	
								NTS	
A1	SIGNAGE NOTES								
							NTS		



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VERIZON WIRELESS
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PROJECT NO.: 20191973145
LOCATION CODE: 274102
330 BALD HILL ROAD
BROOKTONDALE, NY 14817

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1	6-24-20	ISSUED FOR PERMITTING
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: F42.001.011		
DATE: JUNE 2020		
DRAWN BY: M. BUCKINGHAM		
DESIGNED BY: -		
CHECKED BY: E.N. KENNA, P.E.		
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SIGNAGE
DETAILS

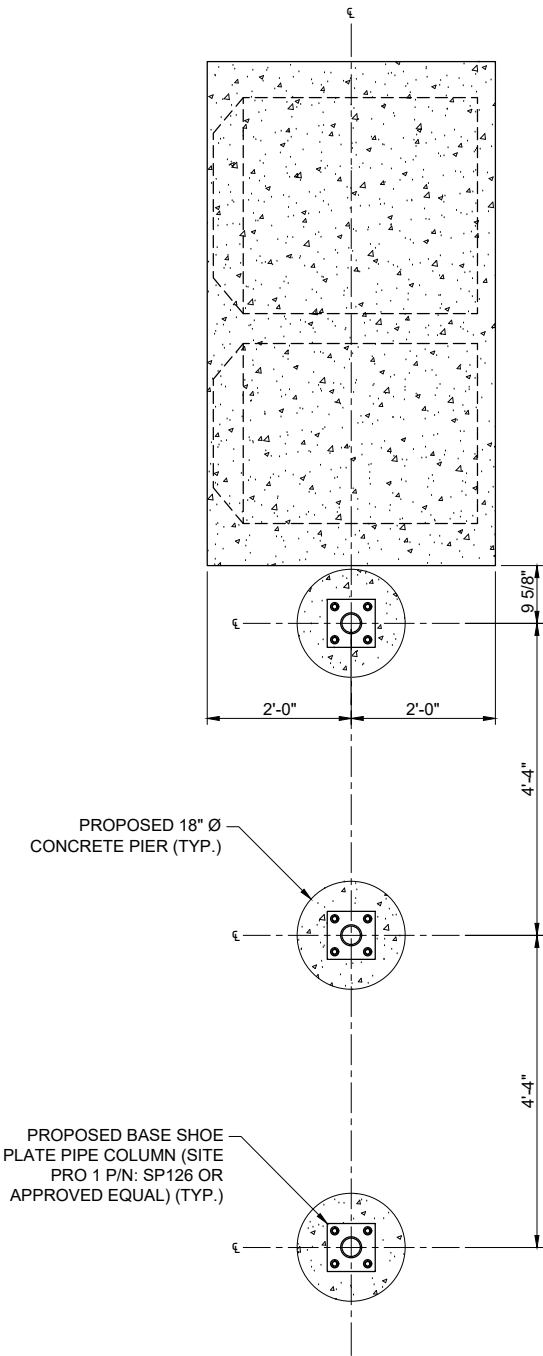
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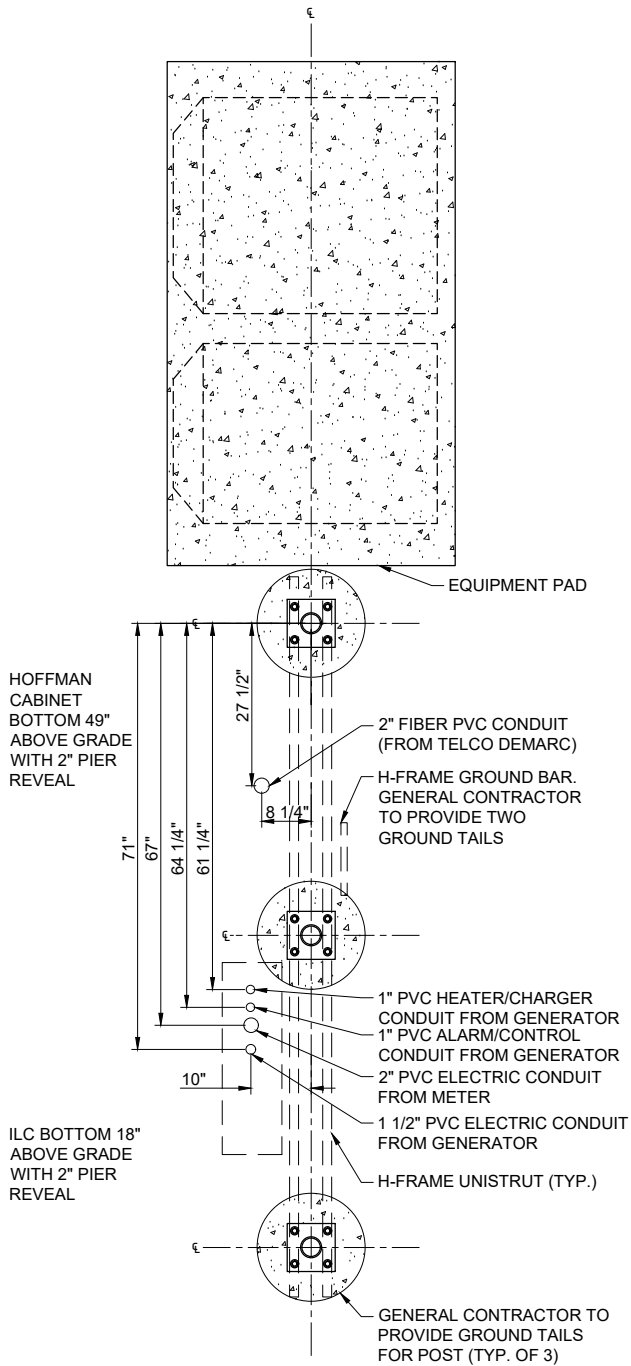
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A



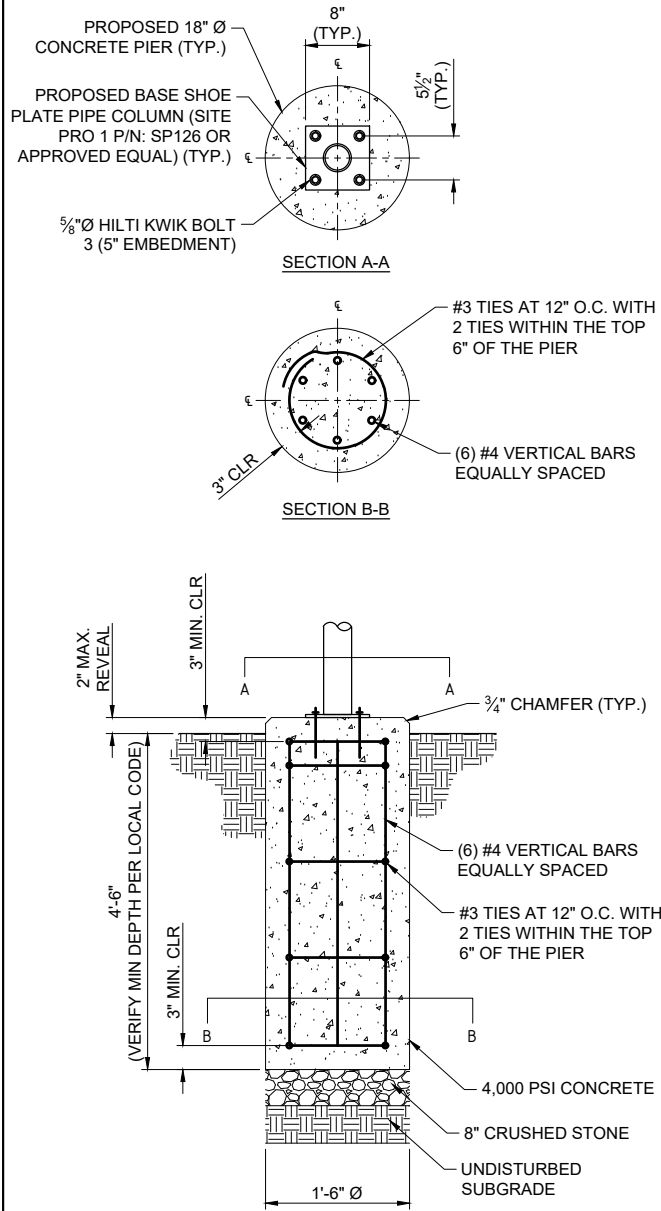
A1 CONCRETE PIER DETAIL
NOT TO SCALE

- NOTES:**
1. VERIZON WIRELESS SETUP VENDOR TO INSTALL RISERS ON STUB-UPS INTO ILC AND FIBER ENCLOSURE.
 2. VERIZON WIRELESS SETUP VENDOR TO UTILIZE EXPANSION COUPLINGS ON ALL RISERS.
 3. GENERAL CONTRACTOR TO INSTALL GENERATOR CONDUITS THROUGH SLAB PER MANUFACTURER CONDUIT LAYOUT. GENERAL CONTRACTOR TO INSTALL PULL STRINGS IN GENERATOR CONDUITS.
 4. GENERAL CONTRACTOR TO PROVIDE #2 SOLID TINNED GROUND LEAD FOR EACH H-FRAME POST AND TWO TAILS FOR H-FRAME GROUND BAR.
 5. H-FRAME POSTS AND GROUND BAR LEAD TERMINATIONS BY VERIZON WIRELESS SETUP VENDOR.



A2 H-FRAME CONDUIT LAYOUT DETAIL
NOT TO SCALE

3



A3 CONCRETE PIER DETAIL
NOT TO SCALE

4



C4 WORK LIGHT DETAIL
NOT TO SCALE

B4 NOT USED
NOT TO SCALE

A4 NOT USED
NOT TO SCALE



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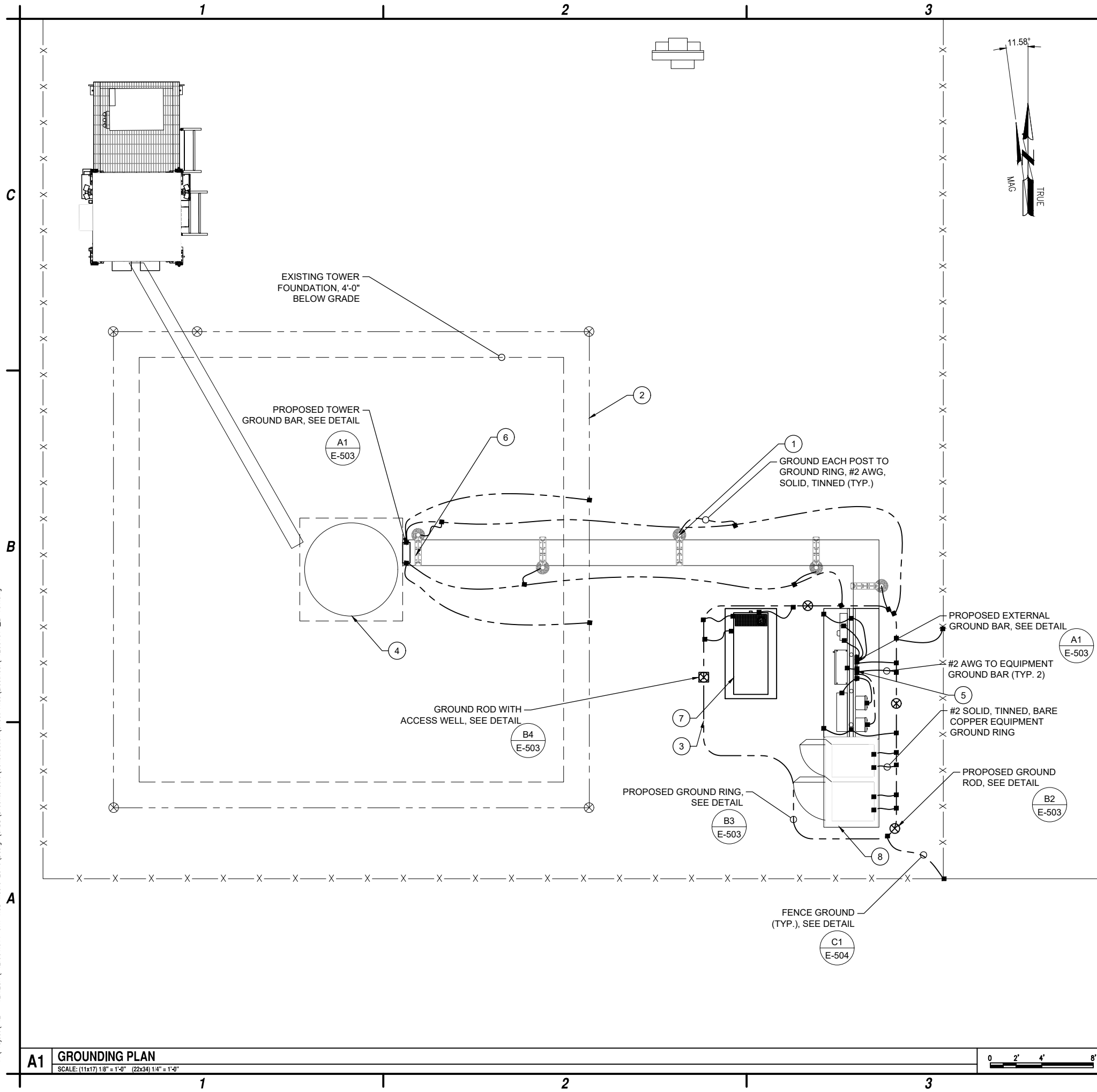
VERIZON WIRELESS
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PROJECT NO.: 20191973145
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330 BALD HILL ROAD
BROOKTONDALE, NY 14817

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PROJECT NO: F42.001.011		
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DRAWN BY: J. OSWALD		
DESIGNED BY:		
CHECKED BY: E.N. KENNA, P.E.		
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**EQUIPMENT
PIER
DETAILS**

C-506

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ABBREVIATIONS
AWG AMERICAN WIRE GAUGE
BCC BARE COPPER CABLE
EGB EXTERNAL GROUND BAR
IPGB INTERIOR PERIMETER GROUND BUS
MGB MASTER GROUND BAR
TGB TOWER GROUND BAR

SYMBOLS:

- SOLID GROUND BUS BAR
 SOLID NEUTRAL BUS BAR
 SUPPLEMENTAL GROUND CONDUCTOR
 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
 SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
 CHEMICAL GROUND ROD
 GROUND ROD
 GROUND ROD WITH ACCESS TEST WELL
 DISCONNECT SWITCH
 METER
 CADWELD TYPE CONNECTION (EXOTHERMIC)
 COMPRESSION TYPE CONNECTION
 GROUNDING WIRE
 GROUND ROD
 GROUND ROD WITH INSPECTION SLEEVE
 TEST GROUND ROD WITH INSPECTION SLEEVE
 EXOTHERMIC WITH INSPECTION SLEEVE
 CODED DRAWING NOTE
 MGB - MASTER GROUND BAR
 EGB - EXTERNAL GROUND BAR
 TGB - TOWER GROUND BAR

CODED DRAWING NOTES:

- ① BOND EACH SECTION AND SUPPORT POST OF ICE BRIDGE
② EXISTING TOWER GROUND RING (FIELD VERIFY)
③ PROPOSED #2 SOLID TINNED BBC BURIED EXTERIOR GROUND RING
④ EXISTING TOWER
⑤ PROPOSED MASTER GROUND BAR (MGB)
⑥ PROPOSED TOWER GROUND BAR (TGB)
⑦ PROPOSED GENERATOR ON CONCRETE PAD.
⑧ PROPOSED EQUIPMENT CABINET ON CONCRETE PAD.

NOTES:

1. GROUNDING SYSTEM SHOWN IS PRELIMINARY AND IS NOT BASED UPON SOIL RESISTIVITY TEST DATA. CONTRACTOR SHALL CONFIRM FINAL GROUNDING DESIGN WITH VERIZON WIRELESS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
3. CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
4. ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS.

A1 GROUNDING PLAN

SCALE: (11x17) 1/8" = 1'-0" (22x34) 1/4" = 1'-0"

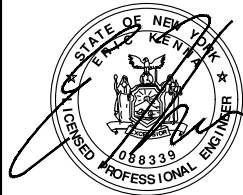


A4 NOTES AND SYMBOLS

NTS



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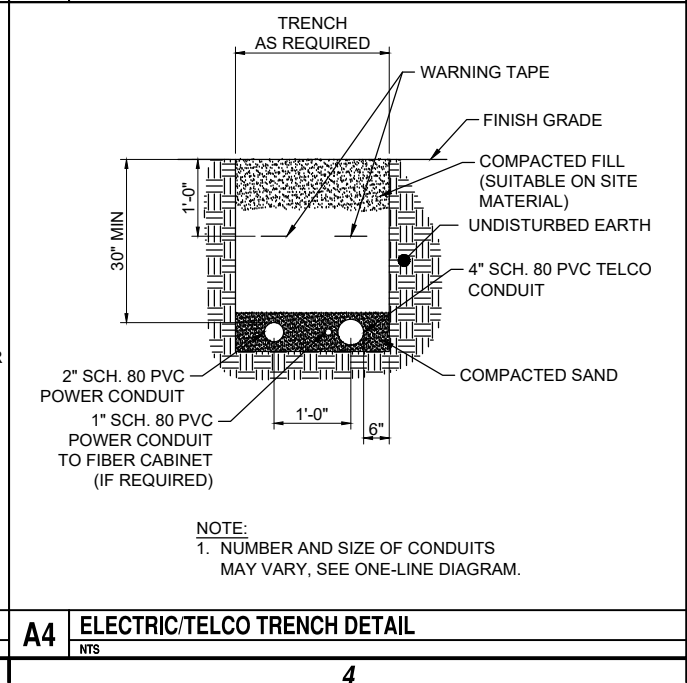
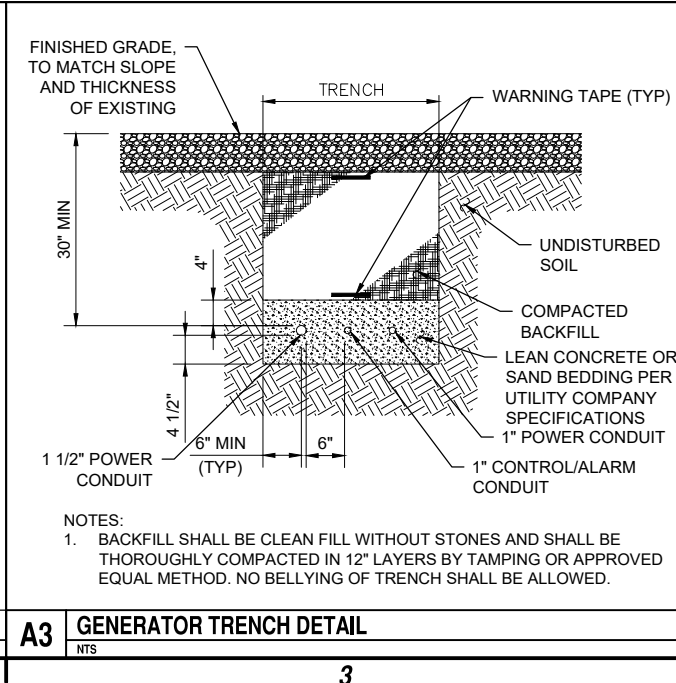
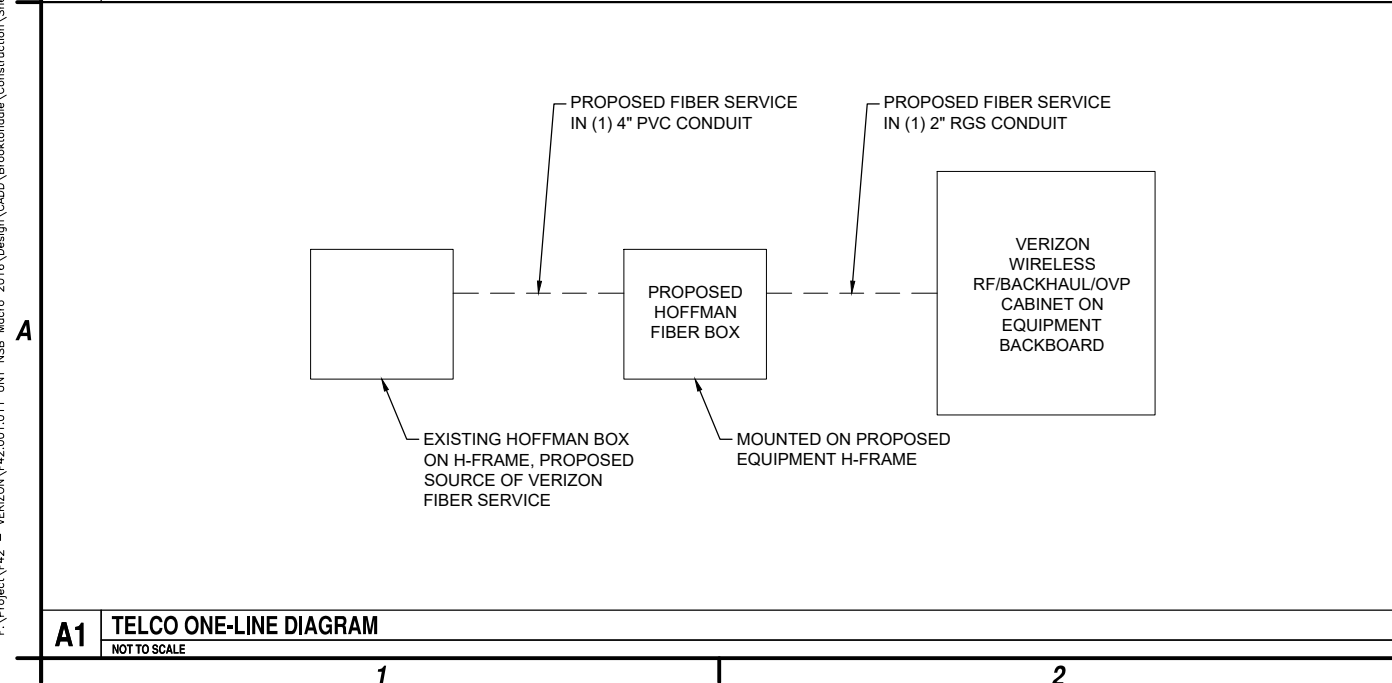
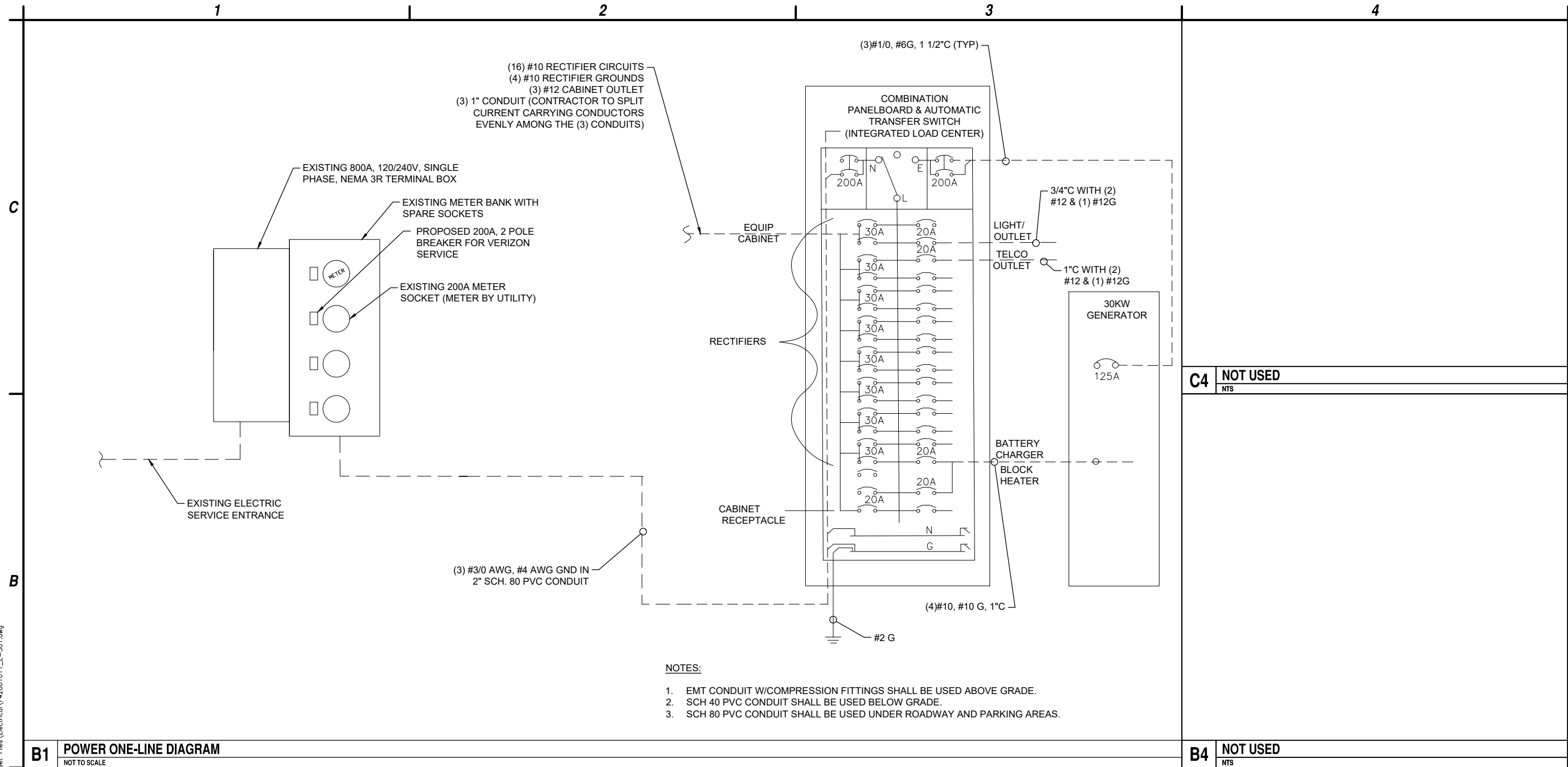
VERIZON WIRELESS
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LOCATION CODE: 274102
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DESIGNED BY:		
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GROUNDING PLAN
AND NOTES

E-101

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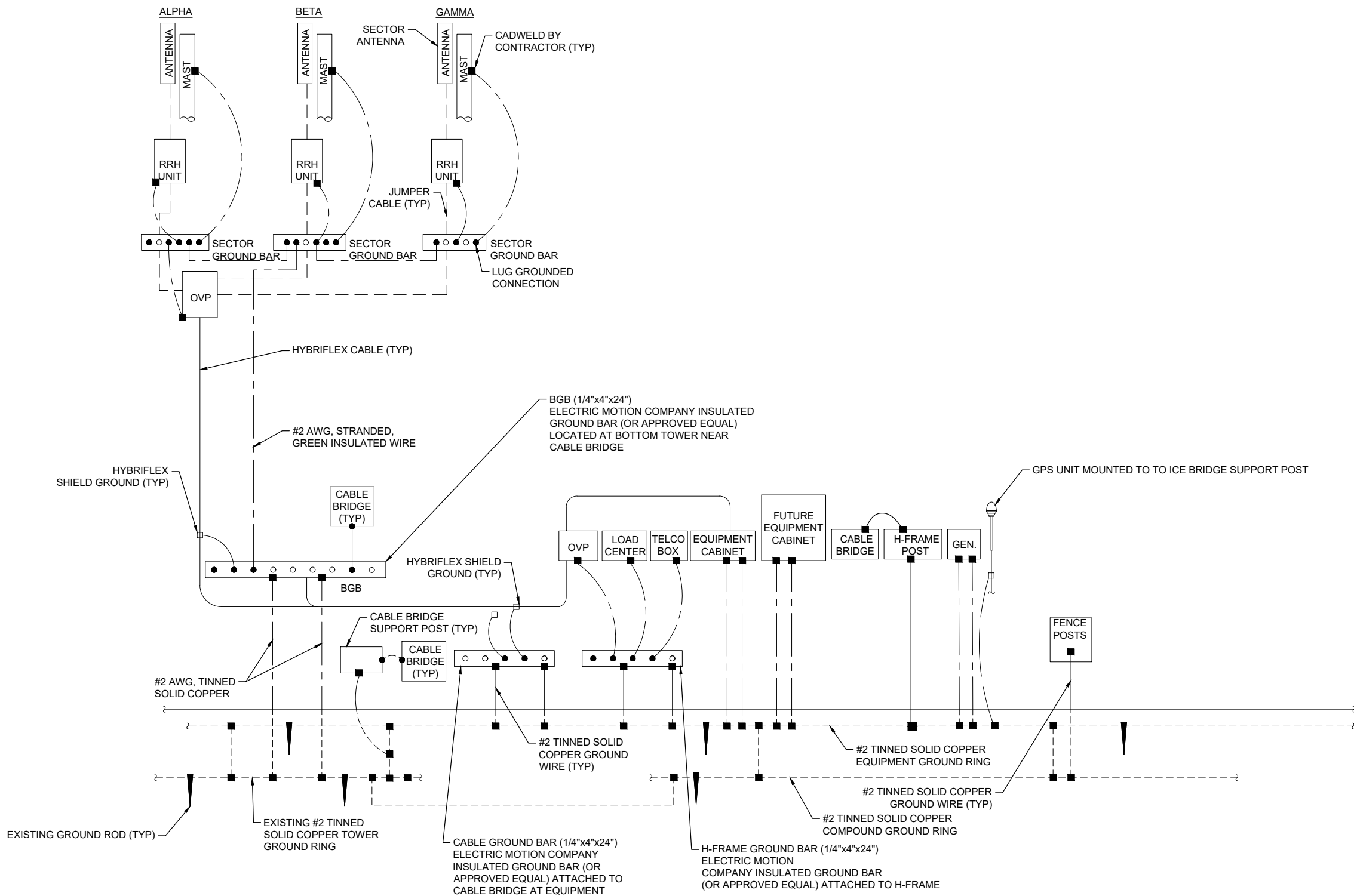
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POWER AND TELCO ONE-LINE DIAGRAMS

E-501

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A1 GROUNDING RISER DIAGRAM
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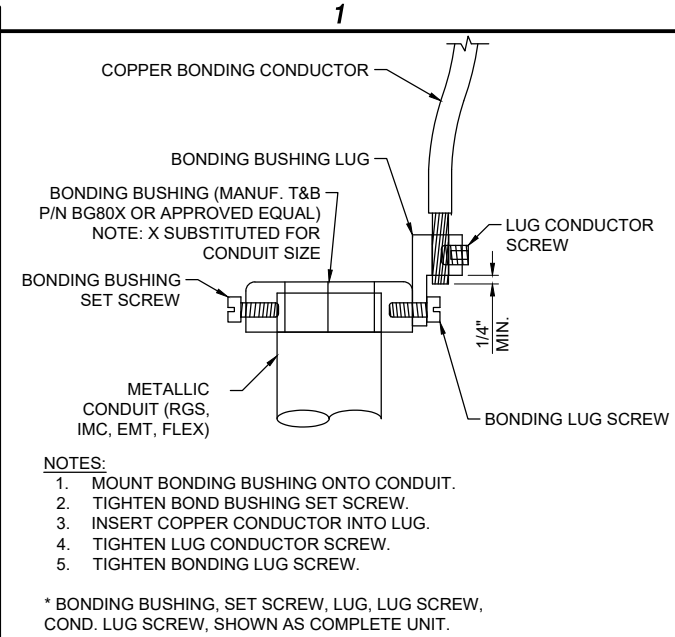
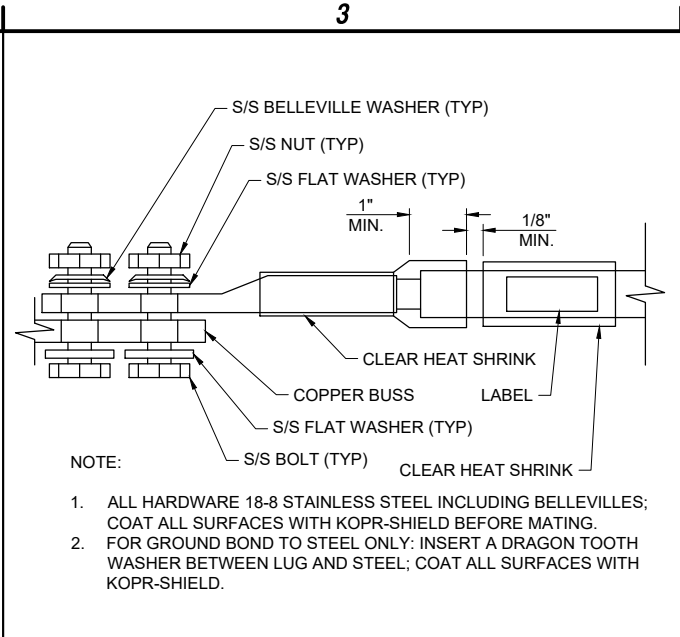
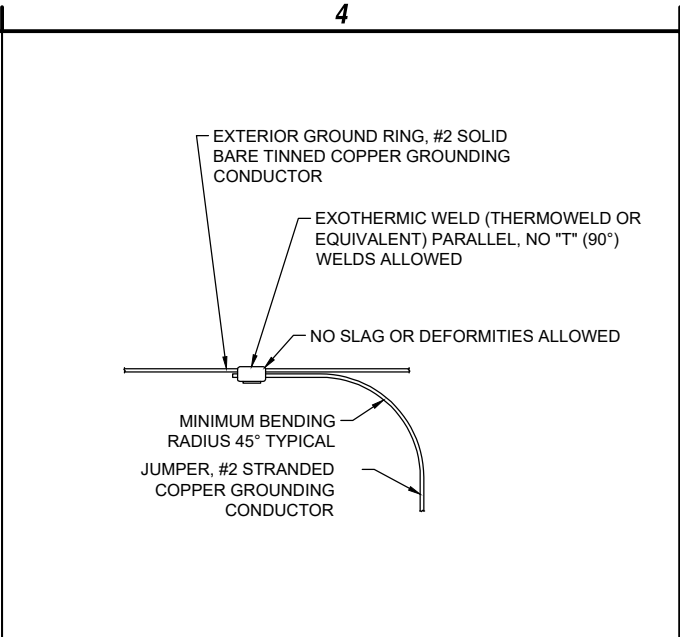
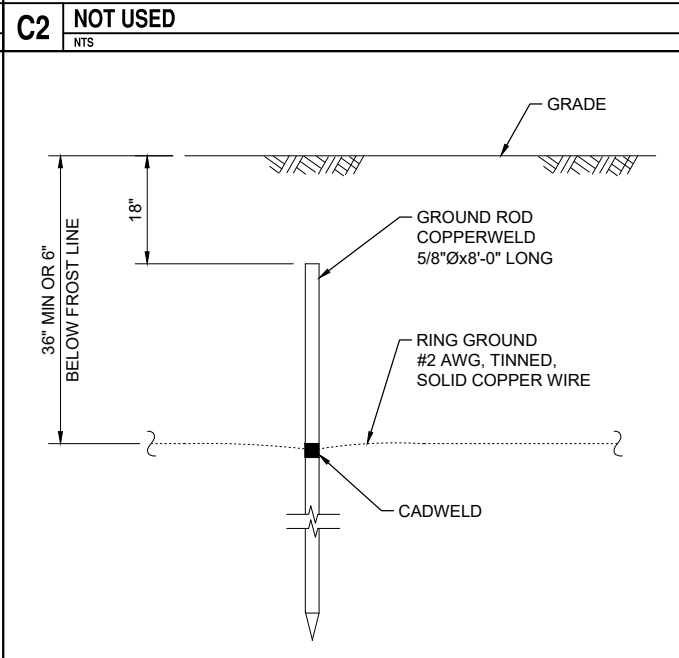
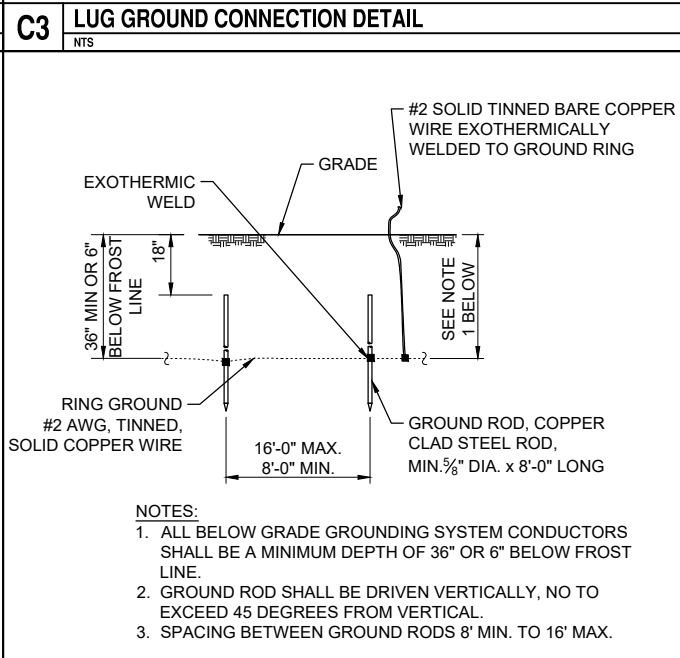
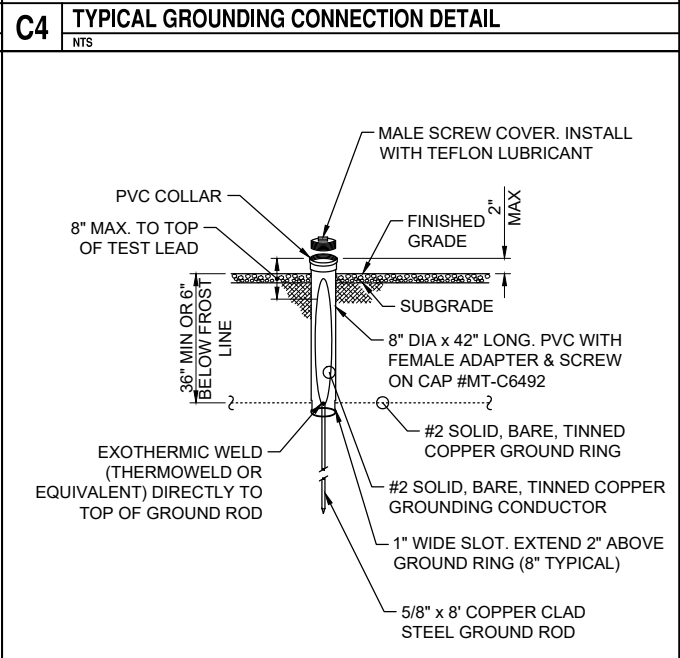
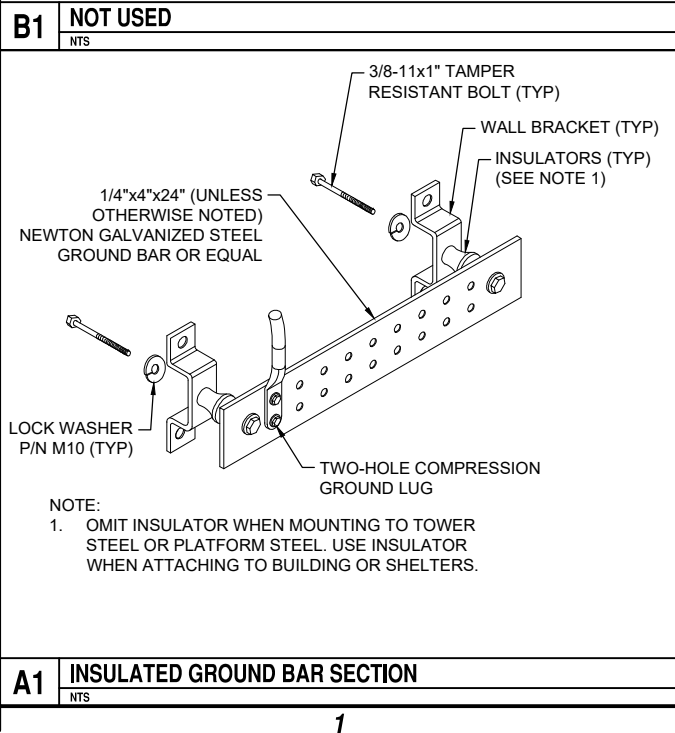
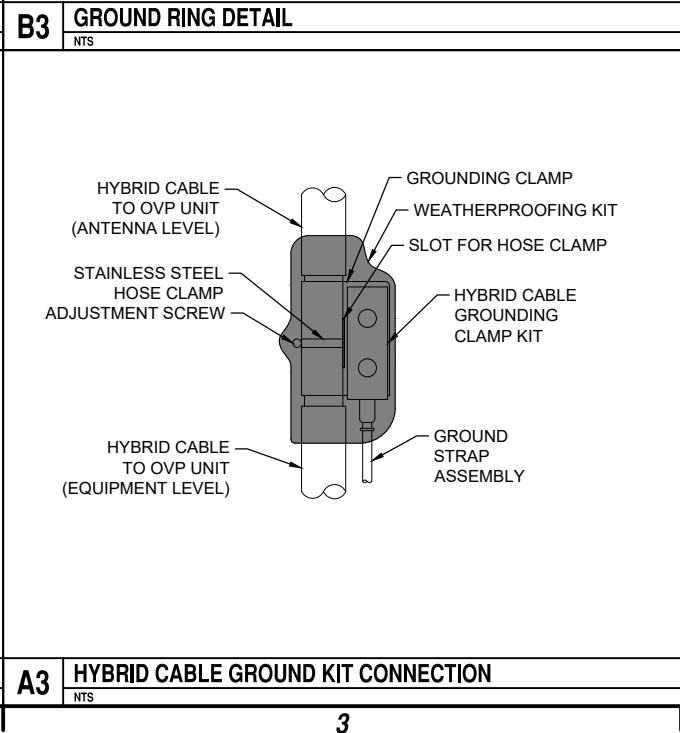
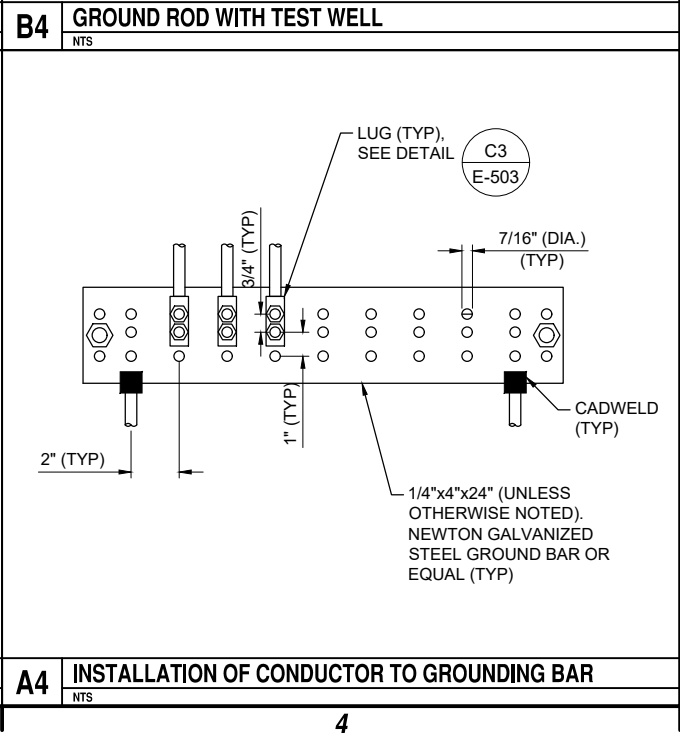
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**GROUNDING
RISER
DIAGRAM**

E-502

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C	<div><div>1</div><div><div>C1</div><div>CONDUIT BOND / GROUND BUSHING</div><div>NTS</div></div></div>	<div><div>2</div><div>NOT USED</div><div>NTS</div></div>	<div><div>3</div><div><div>C3</div><div>LUG GROUND CONNECTION DETAIL</div><div>NTS</div></div></div>	<div><div>4</div><div><div>C4</div><div>TYPICAL GROUNDING CONNECTION DETAIL</div><div>NTS</div></div></div>
	<div><div>B</div><div><div>B1</div><div>NOT USED</div><div>NTS</div></div></div>	<div><div>B2</div><div><div>B2</div><div>GROUND ROD DETAIL</div><div>NTS</div></div></div>	<div><div>B3</div><div><div>B3</div><div>GROUND RING DETAIL</div><div>NTS</div></div></div>	<div><div>B4</div><div><div>B4</div><div>GROUND ROD WITH TEST WELL</div><div>NTS</div></div></div>
	<div><div>A</div><div><div>A1</div><div>INSULATED GROUND BAR SECTION</div><div>NTS</div></div></div>	<div><div>A2</div><div>NOT USED</div><div>NTS</div></div>	<div><div>A3</div><div><div>A3</div><div>HYBRID CABLE GROUND KIT CONNECTION</div><div>NTS</div></div></div>	<div><div>A4</div><div><div>A4</div><div>INSTALLATION OF CONDUCTOR TO GROUNDING BAR</div><div>NTS</div></div></div>

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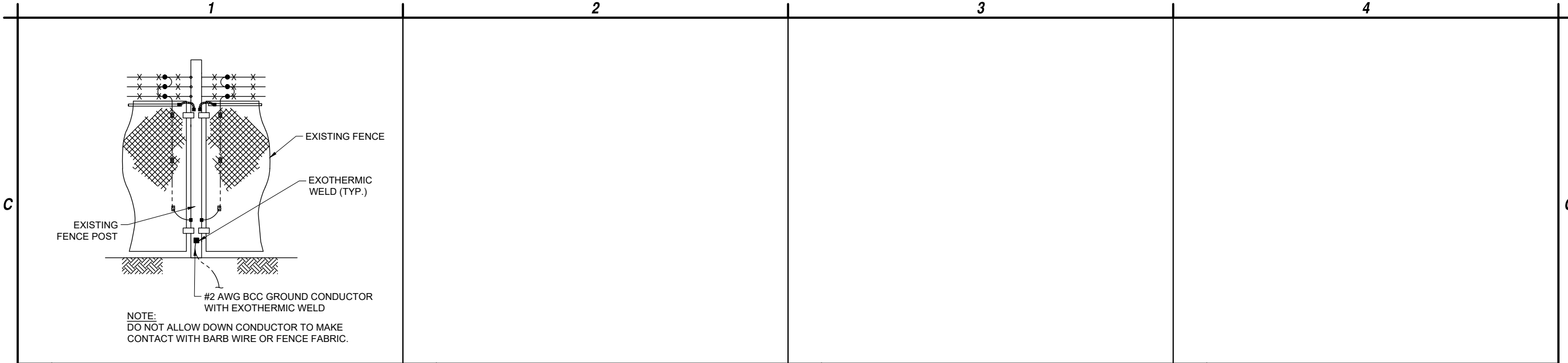
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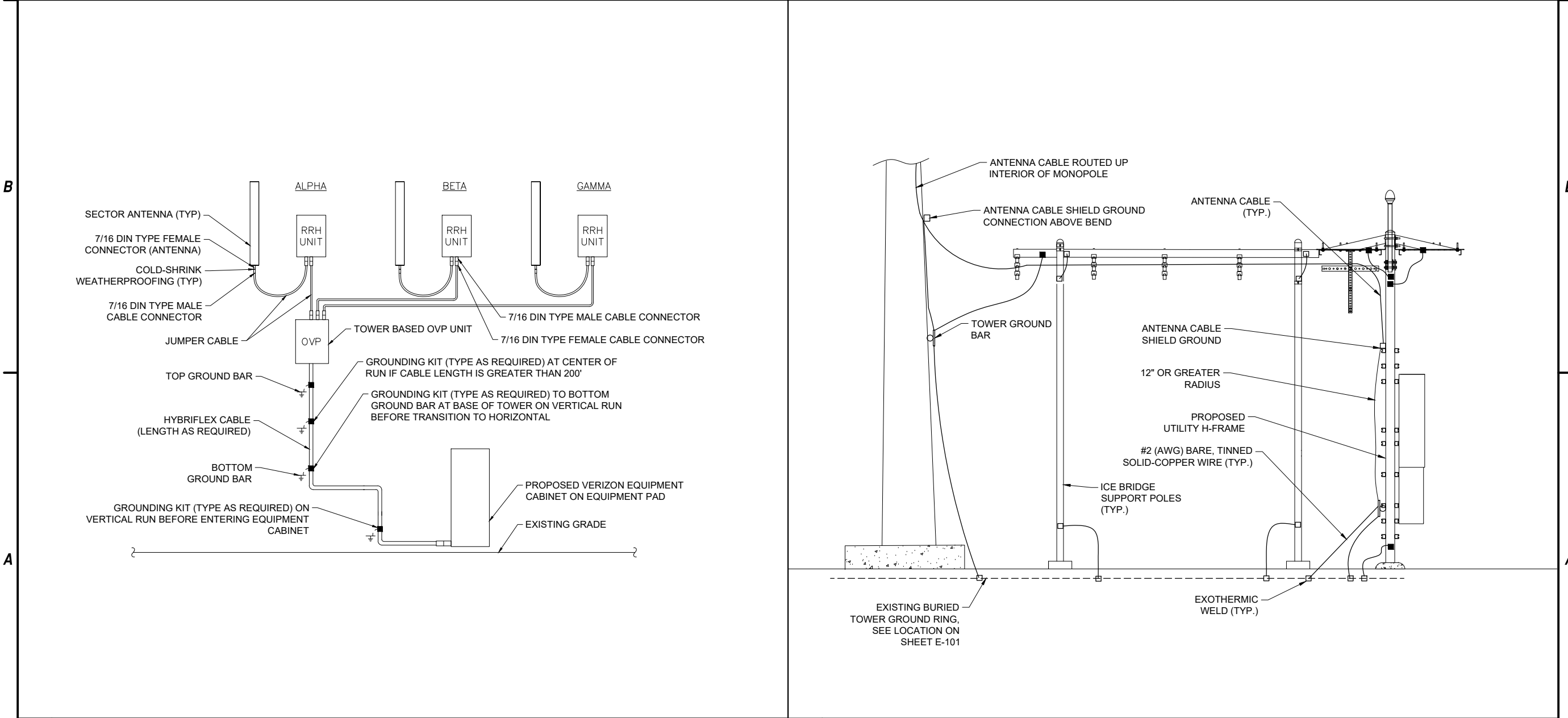
GROUNDING
DETAILS

E-503

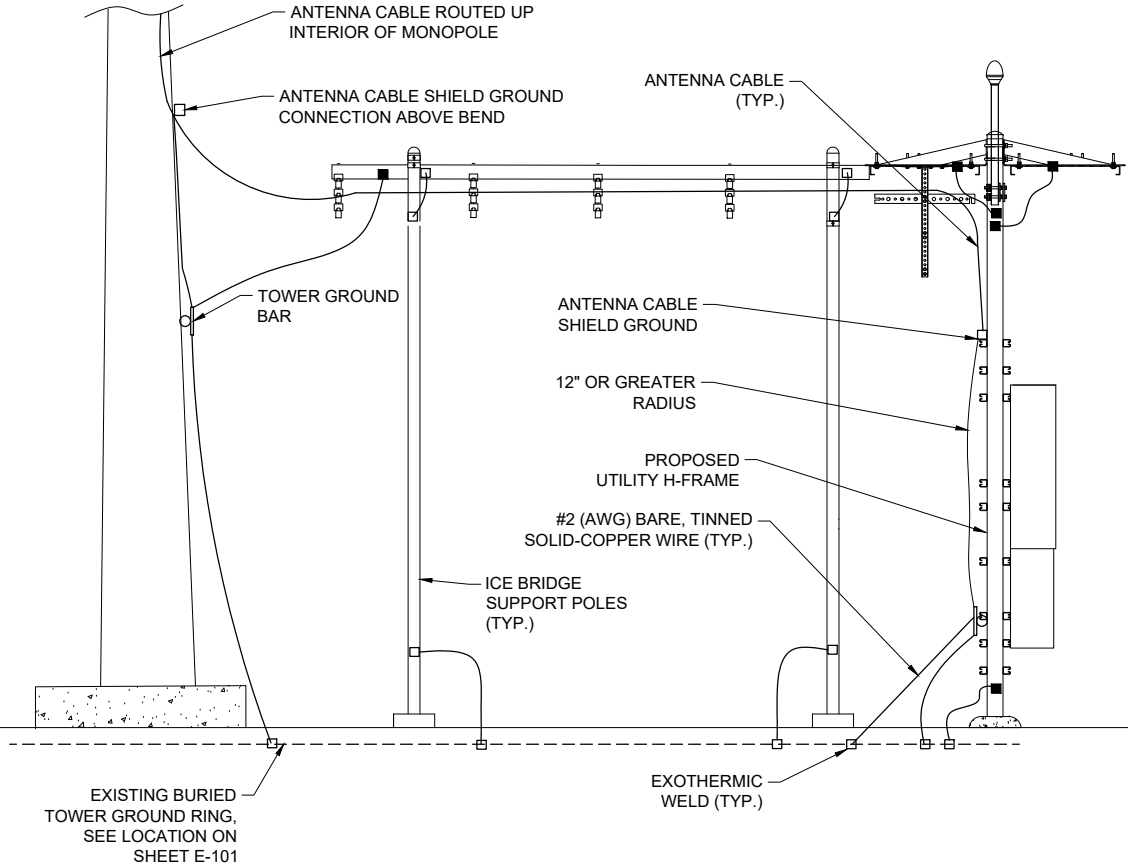
Jul 07, 2020 - 3:46pm
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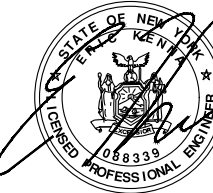
C1	FENCE GROUNDING DETAIL	C2	NOT USED	C3	NOT USED	C4	NOT USED
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	



A1	HYBRID CABLE SCHEMATIC	A3	GROUND KIT LOCATION
NOT TO SCALE		NOT TO SCALE	



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VERIZON WIRELESS
SITE NAME: BROOKTONDALE-B
PROJECT NO.: 20191973145
LOCATION CODE: 274102
330 BALD HILL ROAD
BROOKTONDALE, NY 14817

MARK	DATE	DESCRIPTION
2	7-7-20	# OF ANTENNA CABLES
1	6-24-20	ISSUED FOR PERMITTING
REVISIONS		
PROJECT NO: F42.001.011		
DATE: JUNE 2020		
DRAWN BY: M. BUCKINGHAM		
DESIGNED BY:		
CHECKED BY: E.N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GROUNDING
DETAILS

E-504