

POWER:	BACKHAUL / AAV:
NATIONAL GRID	VERIZON
(800) 642-4272	(800) 837-4966

APPLICANT:	PROPERTY OWNER:
T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088 (315) 453-1340	GAGE FAMILY TRUST 5698 JERRY ROAD MARCY, NY 13403

TOWER OWNER:	PROJECT MANAGER:
HARMONI TOWERS	TRANSCEND WIRELESS
6210 ARDREY KELL ROAD STE 450	1000 WYCKOFF AVENUE, 3RD FLOOR
CHARLOTTE, NC 28277	MAHWAH, NJ 07430
(501) 621-0521	CONTACT: JAMIE MARCHINI
	PHONE: (973) 885-0660

PROJECT CONSULTANT:	SITE ACQUISITION & PERMITTING:
CARPENTER CONSULTING GROUP 17 INDUSTRIAL STREET ROCHESTER, NY 14614 CONTACT: DON CARPENTER PHONE: (585) 370-9516	TRANSCEND WIRELESS 1000 WYCKOFF AVENUE, 3RD FLOOR MAHWAH, NJ 07430 CONTACT: JAMIE MARCHINI PHONE: (973) 885-0660

PROJECT A&E:	CONSTRUCTION MANAGER:
ALBUL ENGINEERING	TRANSCEND WIRELESS
3840 EAST ROBINSON ROAD	1000 WYCKOFF AVENUE, 3RD FLOOR
AMHERST, NY 14228	MAHWAH, NJ 07430
CONTACT: DMITRIY ALBUL	CONTACT: JAMIE MARCHINI
PHONE: (716) 650-8147	PHONE: (973) 885-0660

CODE INFORMATION:

ZONING CLASSIFICATION:	RESIDENTIAL/AGRICULTURAL
BUILDING CODE:	IBC 2018
CONSTRUCTION TYPE:	IIB
OCCUPANCY:	U
JURISDICTION:	TOWN OF STARK
PROPOSED BUILDING USE:	UNMANNED TELECOMMUNICATIONS FACILITY

LATITUDE: 42°56'16.9" (42.938019)
 LONGITUDE: -74°53'41.9" (-74.894967)
 TOP OF STRUCTURE: 2005± / 245± AGL
 TOP OF ALL APPURT.: 2009± / 249± AGL
 BASE OF STRUCTURE: 1760± AMSL

TOTAL LEASE AREA = 150 SQ. FT. 133.2-1-2.1

0 SQ. FT.	n/a
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PARKING REQUIREMENTS ARE UNCHANGED.
TRAFFIC IS UNAFFECTED.

[illegible]

T-MOBILE PROPOSES PER RFDS:
*UP30963A-0002441095_Coverage
 Strategy_4Sec-67E998E_10P_Rev1_PRFDS_2024-10-10*

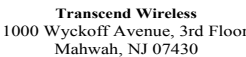
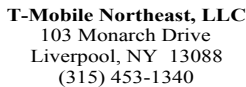
TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY WITH:

THE ADDITION OF:

- (4) RFS APXVAALL24M-U-J20 ANTENNAS
- (4) RADIO 4480 B71+B85
- (4) RADIO 4460 B25+B66
- (3) SITEPRO1 VFA10-HD SECTOR FRAME
- (1) ENCLOSURE 6160
- (1) ENCLOSURE B160
- (2) RP 6651
- (1) IXRe
- (3) 6x24 70M HCS

From I-90 take Exit 29A to NYS Route 169. Follow NYS169 approx. 1600 feet to NYS Route 5S West. Follow NYS Route 5sWest approx. 3 miles to NYS Route 167 South and turn left. Follow NYS Route 167 approx. 5.5 miles to County Route 116 Aney Hill Road. Turn left on Aney Hill Road and follow approx. 1.3 miles to Barker Road and turn right. Barker Road terminates at the site.

APPROVED BY:	DATE:	SIGNATURE:	APPROVED BY:	DATE:	SIGNATURE:
PROJECT MANAGER			RF ENGINEER		
SITE ACQUISITION			OPERATIONS MANAGER		
ZONING			DEVELOPMENT MANAGER		
CONSTRUCTION MANAGER			REGULATORY		



3840 E. ROBINSON ROAD
AMHERST, NY 14228
WWW.ALBULENG.COM
C.A.#PB 106682

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REVISIONS:			
DESCRIPTION	DATE	BY	REV.
ISSUED FOR REVIEW	11/29/24	DWC	A

SITE NAME

MURRAY HILL

SITE NUMBER

UP30963A

SITE ADDRESS:

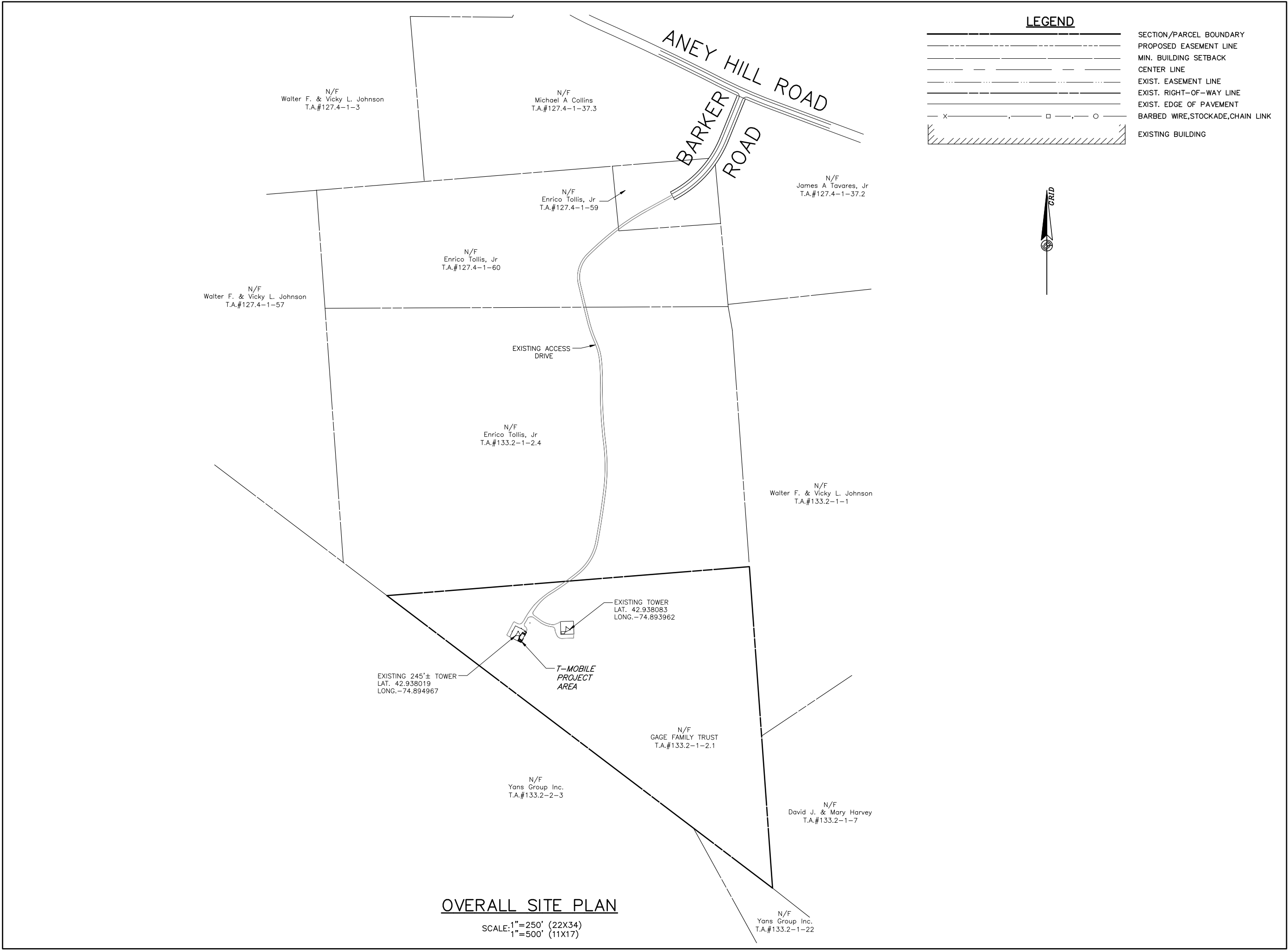
273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

TITLE SHEET

—SHEET NUMBER

T-1



T-Mobile Northeast, LLC
103 Monarch Drive
Liverpool, NY 13088
(315) 453-1340

Transcend Wireless
1000 Wyckoff Avenue, 3rd Floor
Mahwah, NJ 07430

C/CG CARPENTER CONSULTING GROUP
DEVELOPMENT DESIGN
RESIDENTIAL | COMMERCIAL | WIRELESS | ENERGY
17 INDUSTRIAL STREET | ROCHESTER, NY 14614
Office: 585-360-2733 | Fax: 585-360-2735
www.carpentercg.com

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MOHAWK, NY 13047

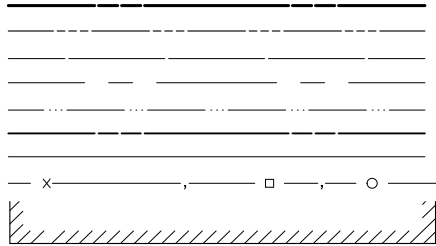
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OVERALL SITE PLAN

SHEET NUMBER:

A-1

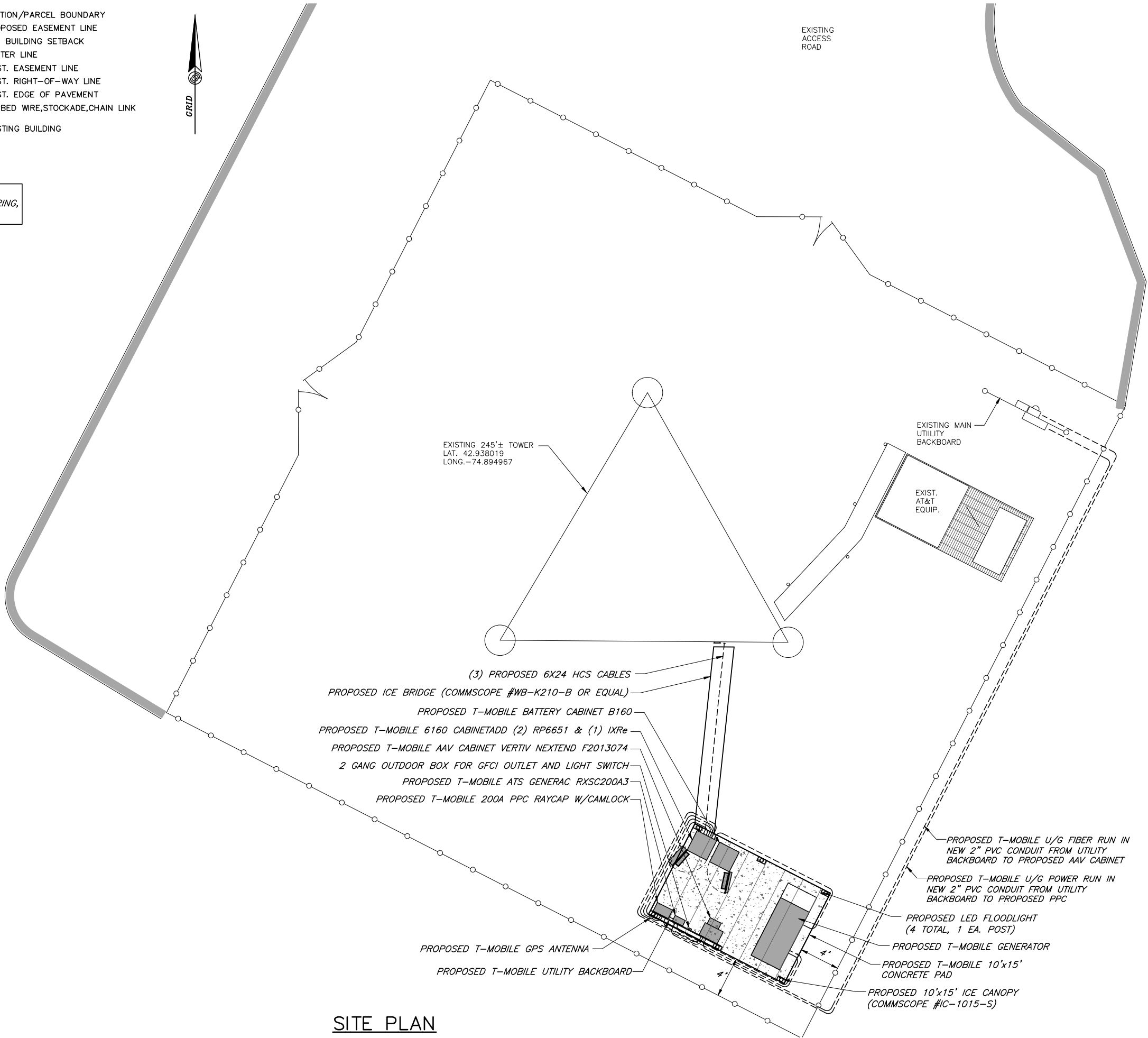
LEGEND



SECTION/PARCEL BOUNDARY
PROPOSED EASEMENT LINE
MIN. BUILDING SETBACK
CENTER LINE
EXIST. EASEMENT LINE
EXIST. RIGHT-OF-WAY LINE
EXIST. EDGE OF PAVEMENT
BARBED WIRE, STOCKADE, CHAIN LINK
EXISTING BUILDING



NOTE: REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS REPORT PREPARED BY ALBUL ENGINEERING, PROJECT #



SITE PLAN

SCALE: 1"=5' (22X34)
1"=10' (11X17)

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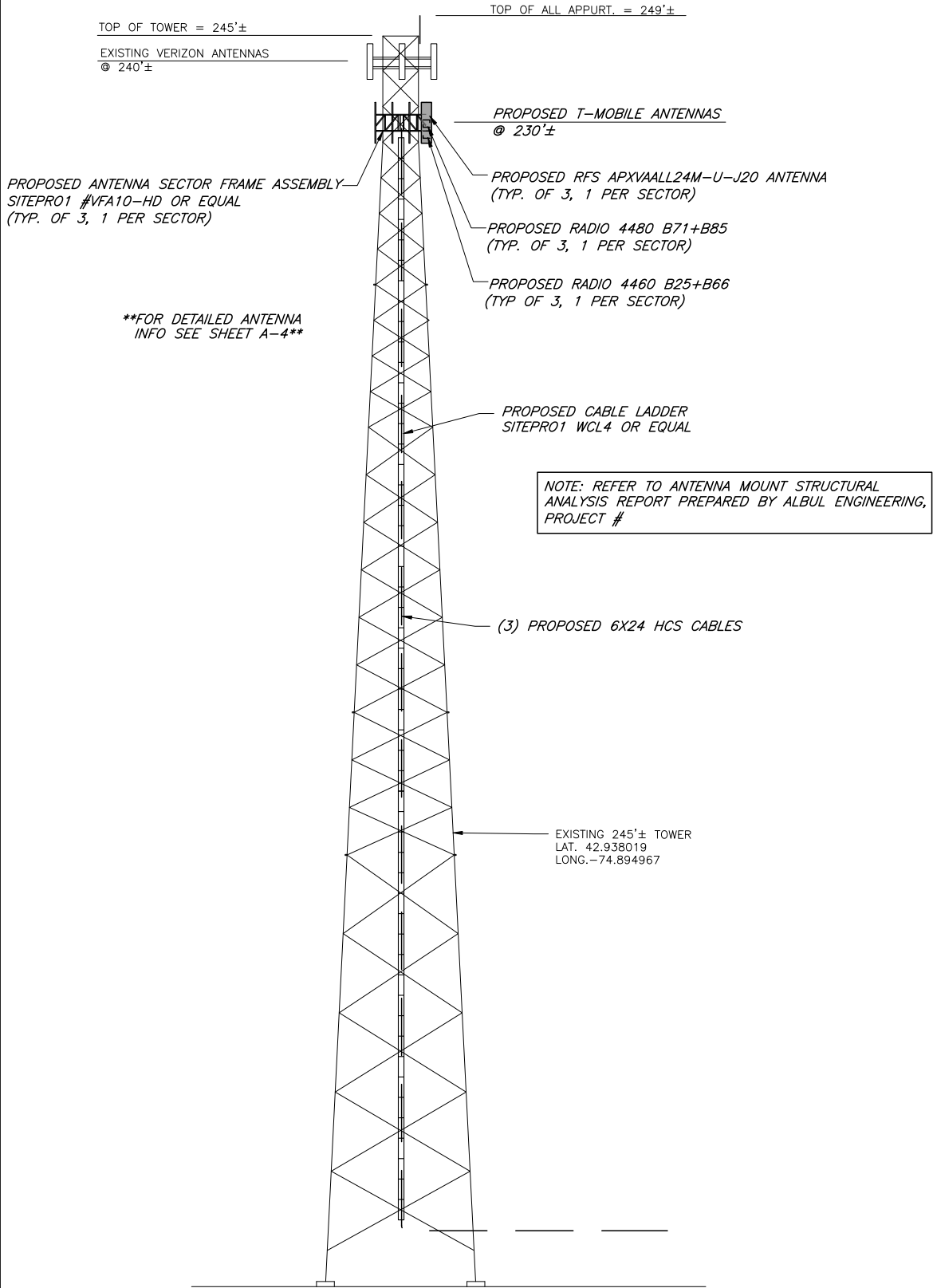
273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

SITE PLAN

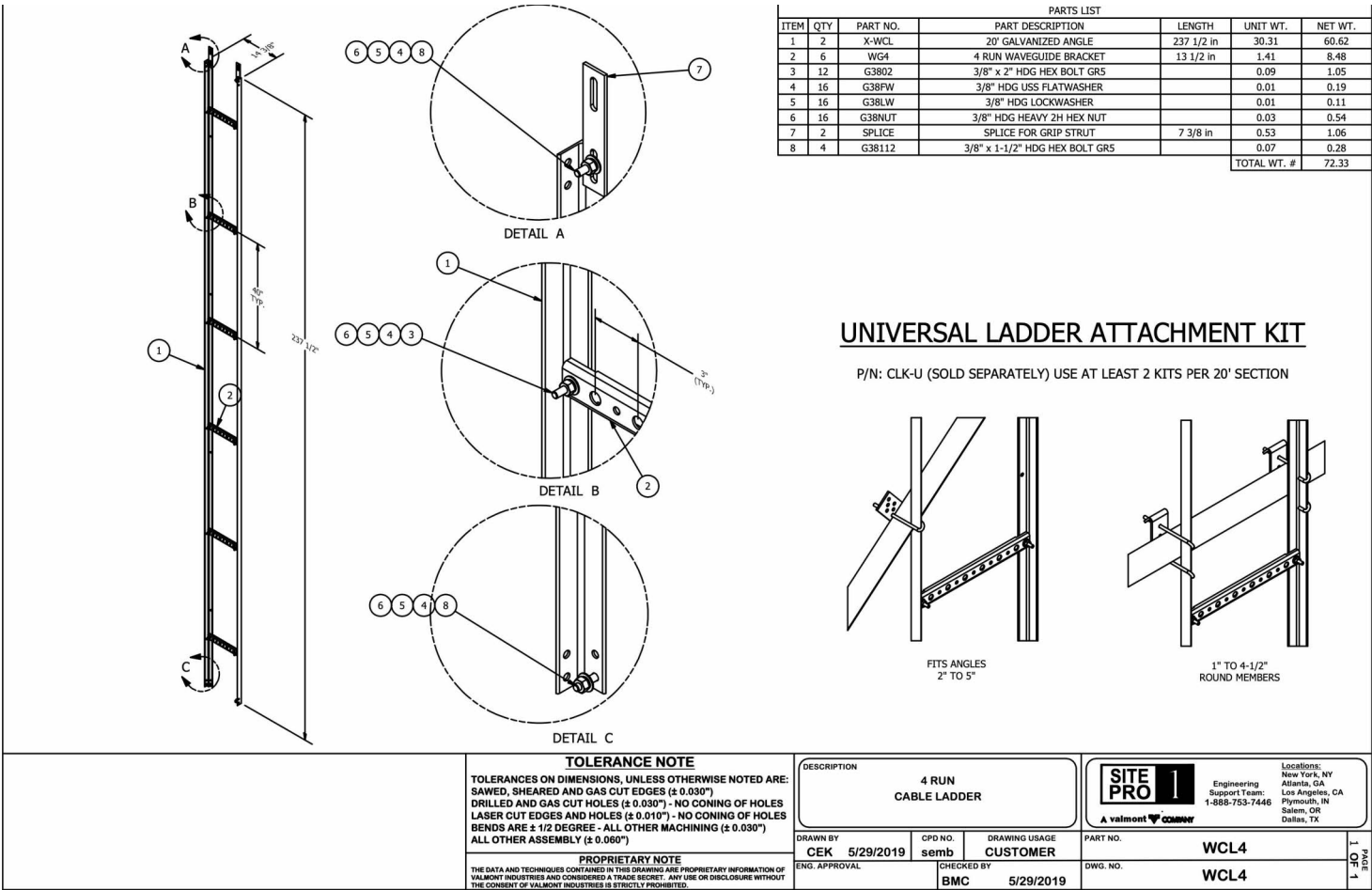
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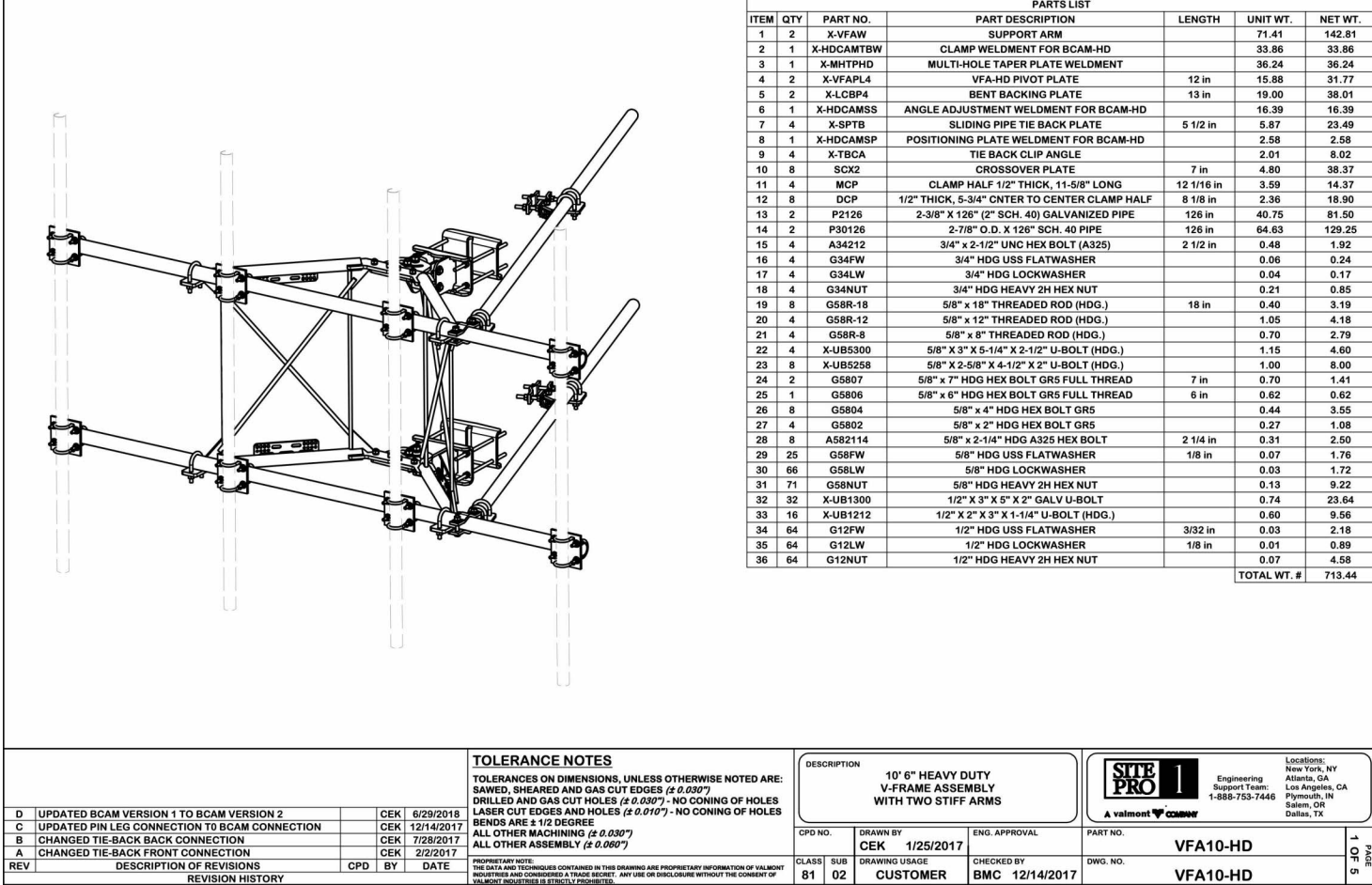
TOWER ELEVATION

SCALE: 1"=15' (22X34)
1"=30' (11X17)



CABLE LADDER

NTS



ANTENNA SECTOR FRAME ASSEMBLY

NTS

T-Mobile

T-Mobile Northeast, LLC
103 Monarch Drive
Liverpool, NY 13088
(315) 453-1340

Transcend Wireless

Transcend Wireless
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Mahwah, NJ 07430

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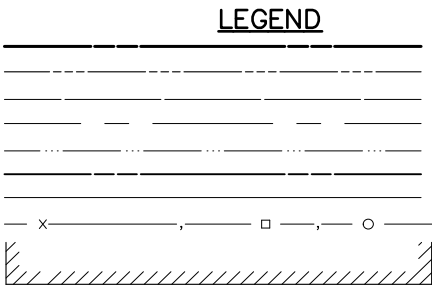
273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

ELEVATION

SHEET NUMBER:

A-3



NOTE: REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS REPORT PREPARED BY ALBUL ENGINEERING, PROJECT #

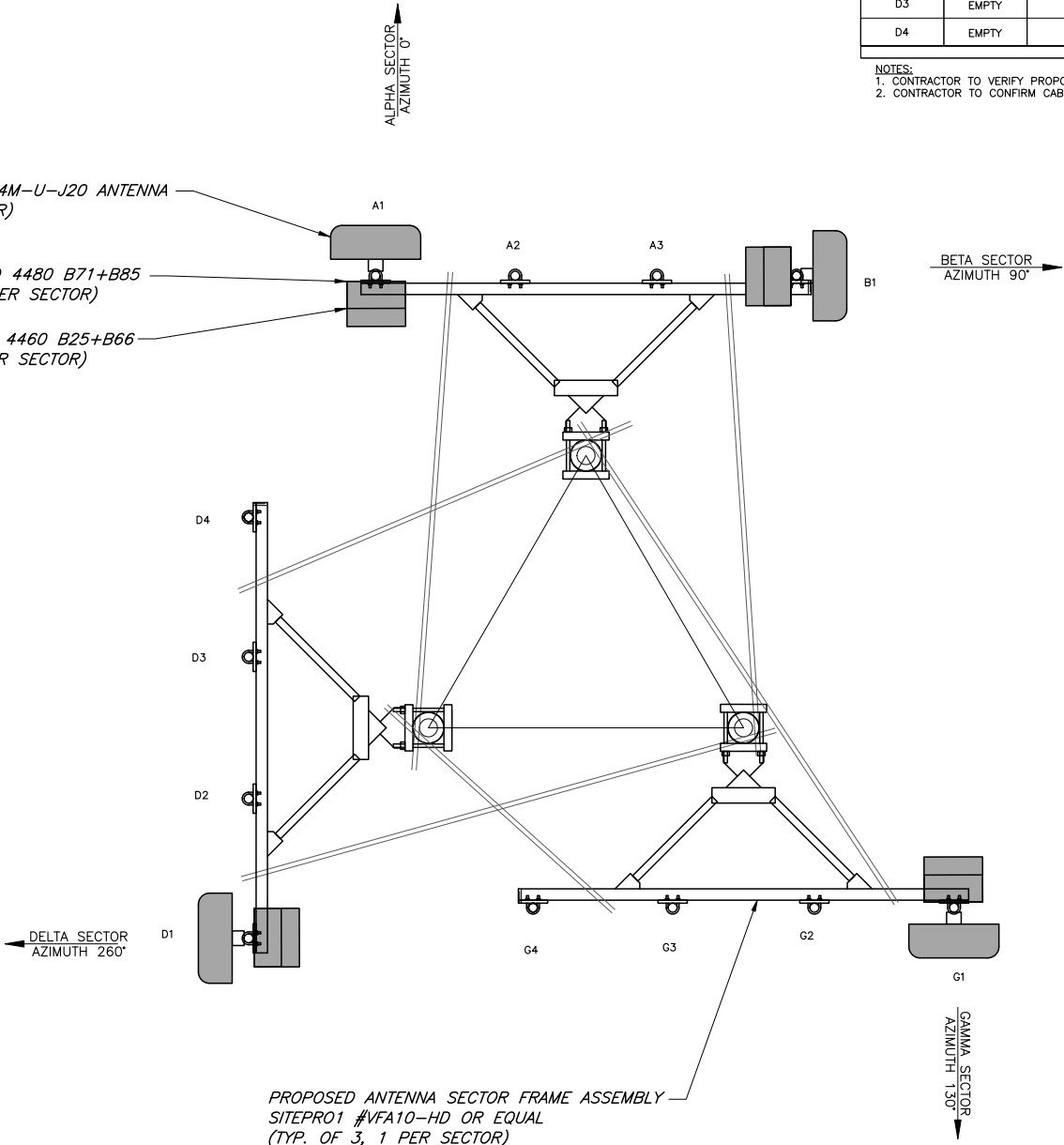
ANTENNA SCHEDULE									
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS (HxWxD)	RAD CENTER	AZIMUTH	RRU QUANTITY & MODEL	CABLE QUANTITY & TYPE	CABLE LENGTH
A1	PROPOSED	RFS	APXVAALL24M-U-J20	95.9"x19.7"x8.5"	230'±	0°	(1) ERICSSON RADIO 4480 (1) ERICSSON RADIO 4460	(1) 6X24 HCS CABLE	70 METER
A2	EMPTY								
A3	EMPTY								
B1	PROPOSED	RFS	APXVAALL24M-U-J20	95.9"x19.7"x8.5"	230'±	90°	(1) ERICSSON RADIO 4480 (1) ERICSSON RADIO 4460	(1) 6X24 HCS CABLE	70 METER
G1	PROPOSED	RFS	APXVAALL24M-U-J20	95.9"x19.7"x8.5"	230'±	180°	(1) ERICSSON RADIO 4480 (1) ERICSSON RADIO 4460	(1) 6X24 HCS CABLE	70 METER
G2	EMPTY								
G3	EMPTY								
G4	EMPTY								
D1	PROPOSED	RFS	APXVAALL24M-U-J20	95.9"x19.7"x8.5"	230'±	270°	(1) ERICSSON RADIO 4480 (1) ERICSSON RADIO 4460		
D2	EMPTY								
D3	EMPTY								
D4	EMPTY								

NOTES:
1. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

PROPOSED RFS APXVAALL24M-U-J20 ANTENNA
(TYP. OF 4, 1 PER SECTOR)

PROPOSED RADIO 4480 B71+B85
(TYP. OF 4, 1 PER SECTOR)

PROPOSED RADIO 4460 B25+B66
(TYP. OF 4, 1 PER SECTOR)



PROPOSED ANTENNA PLAN

SCALE: 1"=2' (22X34)
1"=4' (11X17)

T-Mobile

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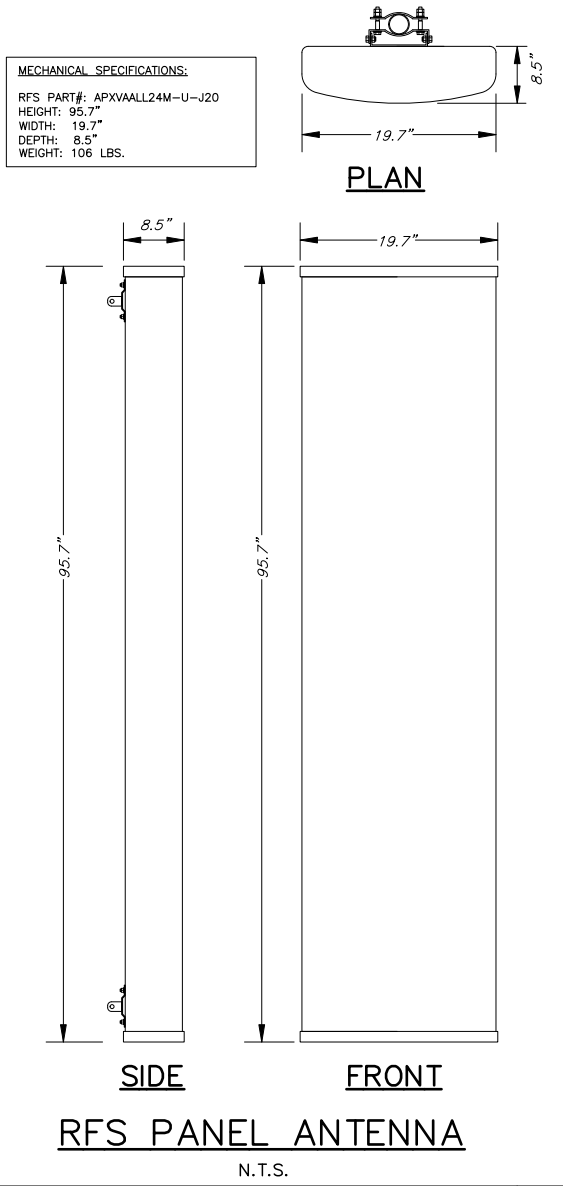
**273 BARKER ROAD
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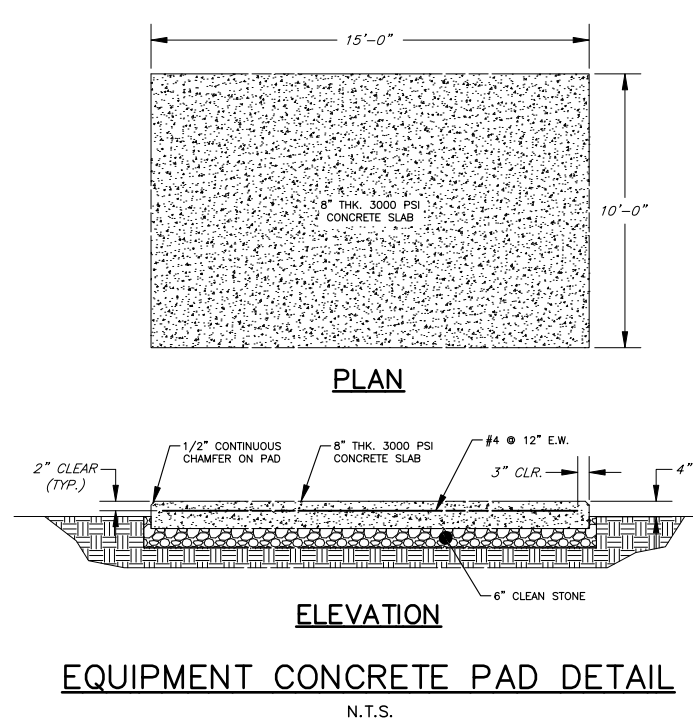
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ANTENNA PLAN & SCHEDULE

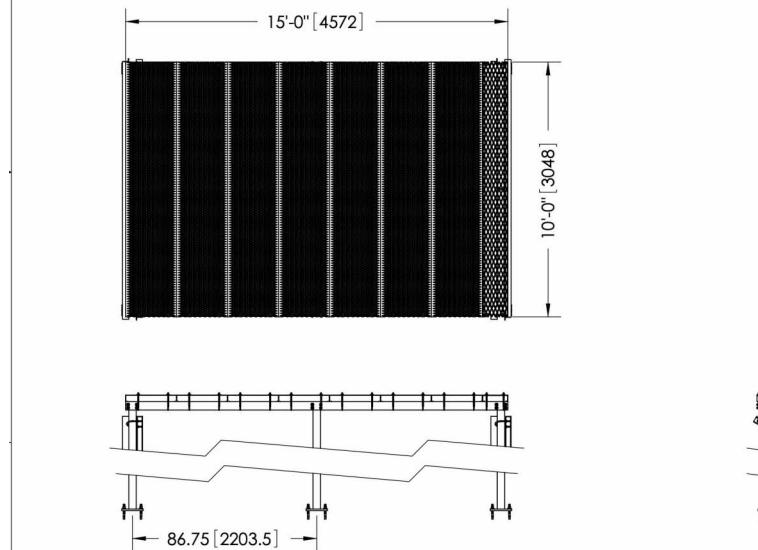
SHEET NUMBER:

A-4





ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	WB-CY210	SAFETY GRATING 24" X 10"	7	76.00 LBS
2	WB-CY110	SAFETY GRATING 12" X 10"	1	70.00 LBS
3	IC101501	15' ICE SHIELD SUPPORT BRACKET	2	97.47 LBS
4	IC101502	Diagonal Support	4	56.31 LBS
5	MF126.01	BASE SHOE	6	69.59 LBS
6	MT-287	3/4" x 7" WEDGE ANCHOR	12	0.72 LBS
7	GJB0380	8" GALV J-BOLT KIT	32	0.23 LBS
8	MT-387	SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE	32	0.11 LBS
9	GWL-03	3/8" GALV LOCK WASHER	32	0.00 LBS
10	GN-03	3/8" GALV HEX NUT	32	0.04 LBS
11	GUB-4355	1/2" X 3-5/8" X 5" GALV U-BOLT	12	1.27 LBS
12	GUB-4456	1/2" X 4-5/8" X 6-1/2" GALV U-BOLT	8	1.27 LBS
13	MT-379-6	1/2" X 6" GALV THREADED ROD	2	0.33 LBS
14	GWF-04	1/2" GALV FLAT WASHER	4	0.06 LBS
15	GWL-04	1/2" GALV LOCK WASHER	4	0.00 LBS
16	GN-04	1/2" GALV HEX NUT	4	0.04 LBS

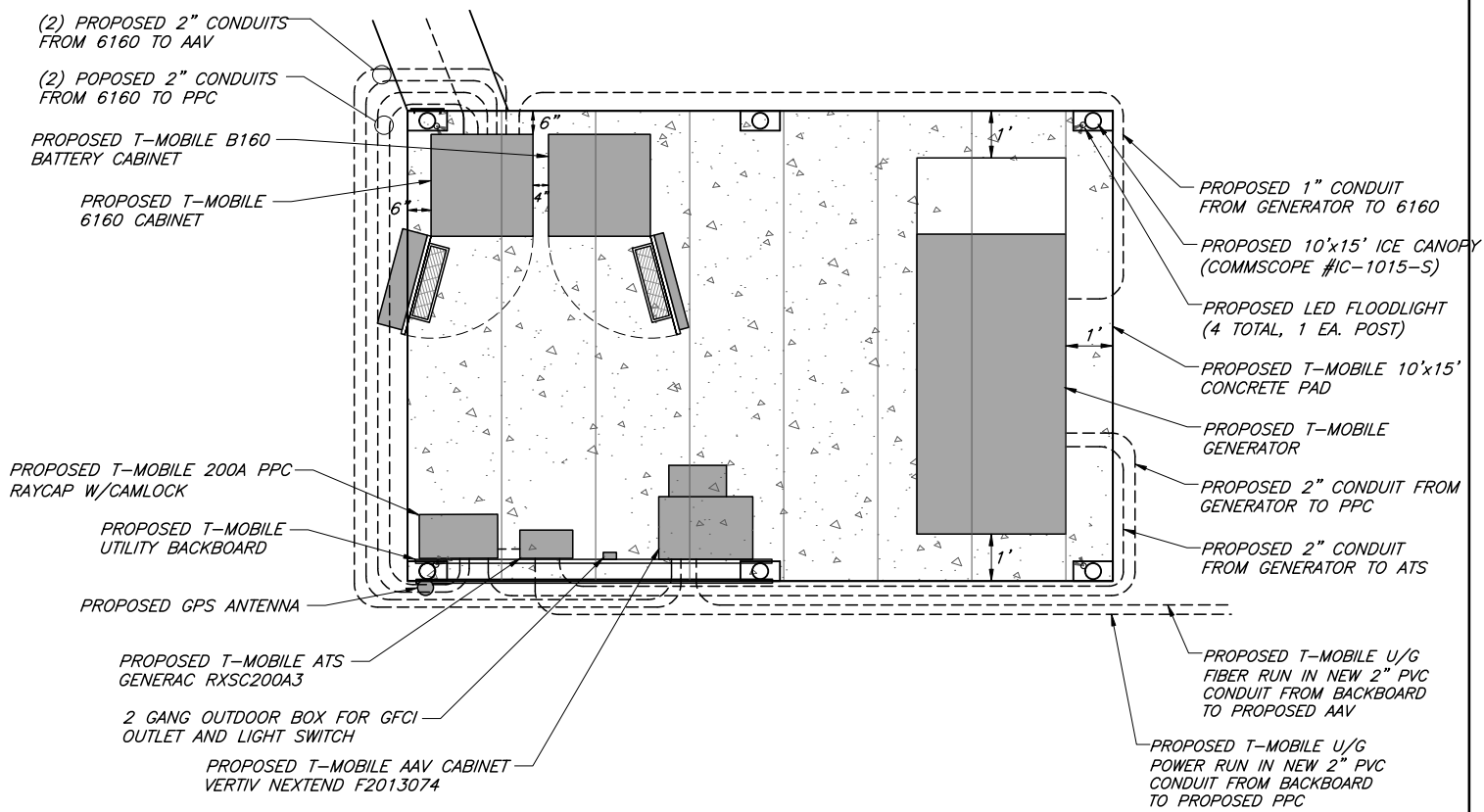


NOTES:

1. ALL METRIC DIMENSIONS ARE IN BRACKETS.

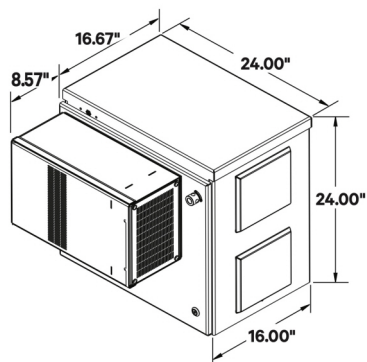
ICE CANOPY DETAIL

N.T.S.



GROUND EQUIPMENT LAYOUT

SCALE: 1"=2' (22X34)
1"=4' (11X17)

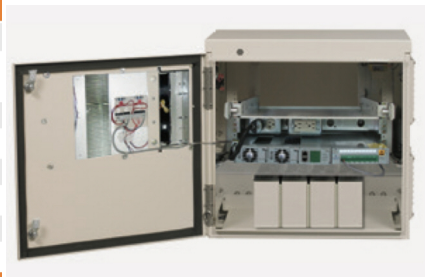


Technical Specifications

ELECTRICAL	
System Voltage	120 VAC single phase (nominal)
Output Voltage	-42 VDC to -58 VDC
System Capacity	19" 1 RU up to 8 A
Rectifier Capacity	0.4 kW @ 120 VAC
DC Distribution	Wallmount GMT fuse panel with (10) fuses, up to 15 A
Controller	SCU+ controller

PHYSICAL CHARACTERISTICS	
Framework Type	NetXtend™ Compact Enclosure
Available Space	Up to 14 RU, 19" W
Dimensions (H x W x D)	Enclosure: 24" x 24" x 16" Battery tray: 22" W x 13" D
Mounting	Wall or H-frame, pole mount (wall-mount kit included)
Weight, Equipped	Enclosure: 64 lb, w/out batteries Four (4) batteries: 36 lb. total
Access	Front

VERTIV™ NUMBER	DESCRIPTION
F2013074	Outdoor Solution w/DC Power
Equipped with the following:	
1 EA	NetXtend Compact with heat exchanger, NXC2416AAV1H05BB3 and slide-out shelf
1 EA	NetSure 211 power system
2 EA	500 W rectifiers
1 EA	19" rack-mount, slide-out tray
1 EA	AC outlet mounting bracket
2 EA	20 A, 120 VAC outlets
1 EA	Wall-mounting kit



AAV CABINET DETAIL

N.T.S.

T-Mobile

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REVISIONS:	DESCRIPTION	DATE	BY	REV.
ISSUED FOR REVIEW		11/29/24	DWC	A

SITE NAME:

MURRAY HILL

SITE NUMBER:

UP30963A

SITE ADDRESS:

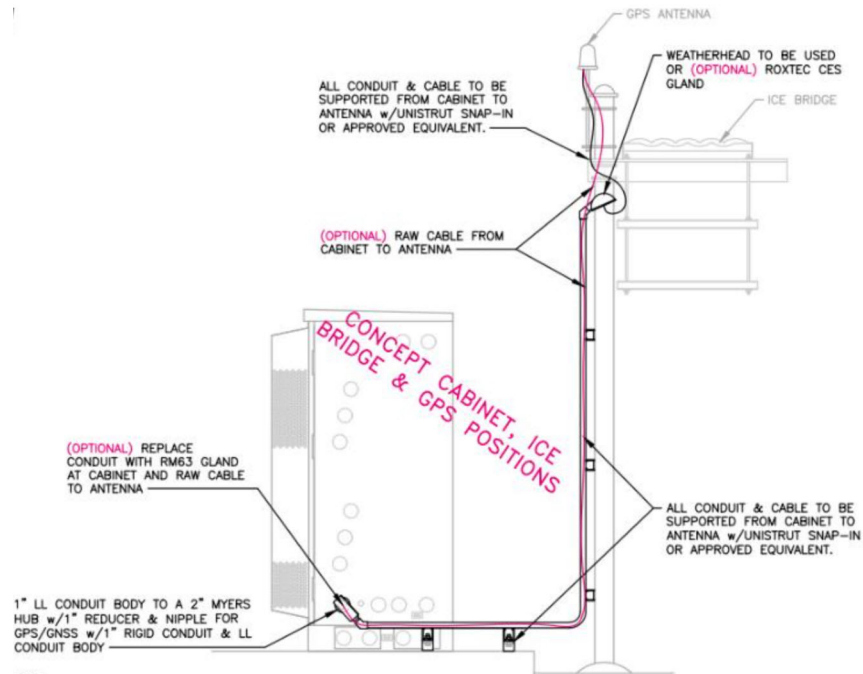
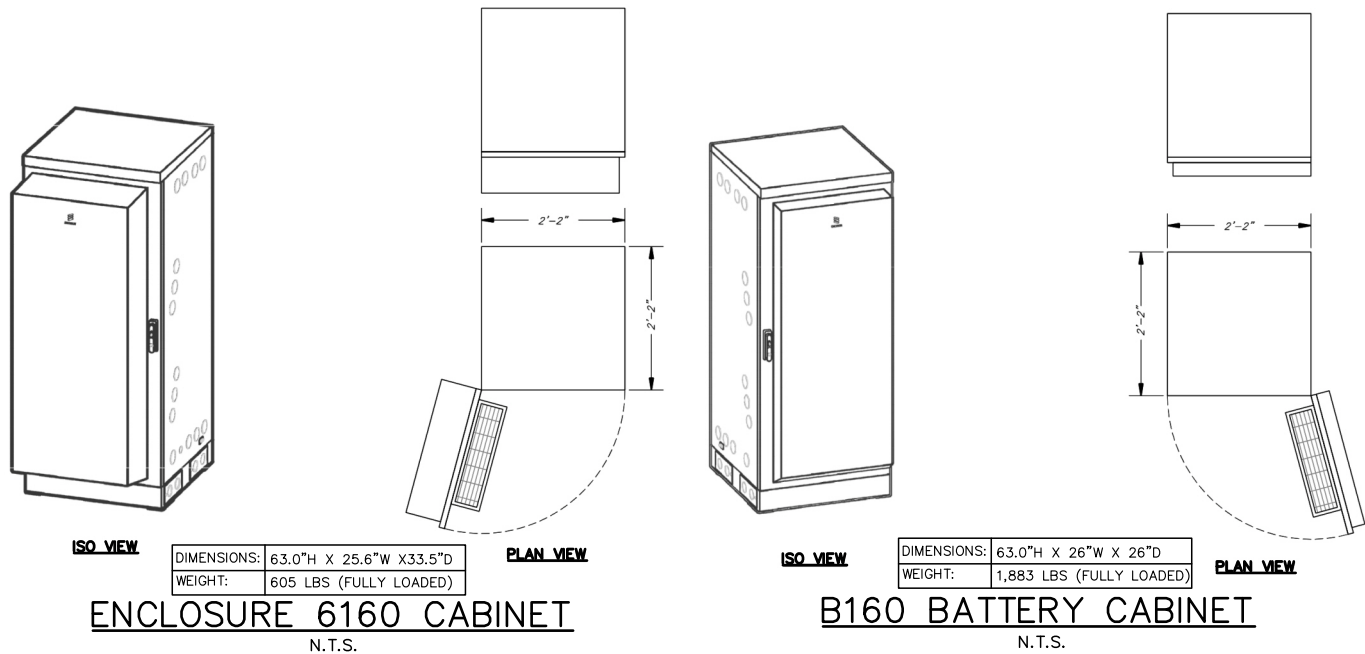
**273 BARKER ROAD
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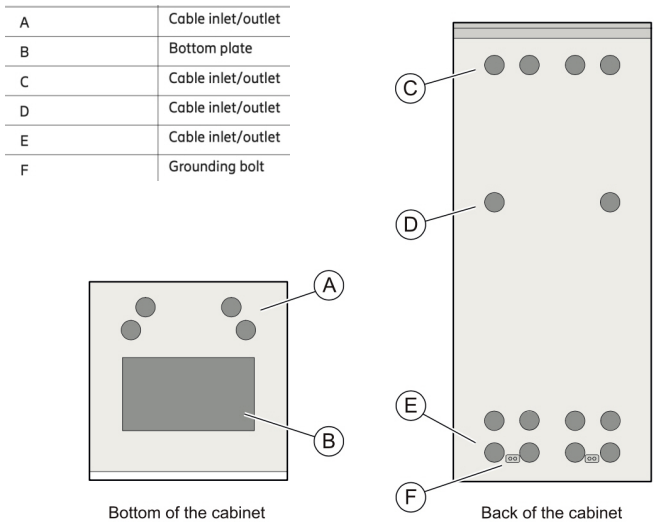
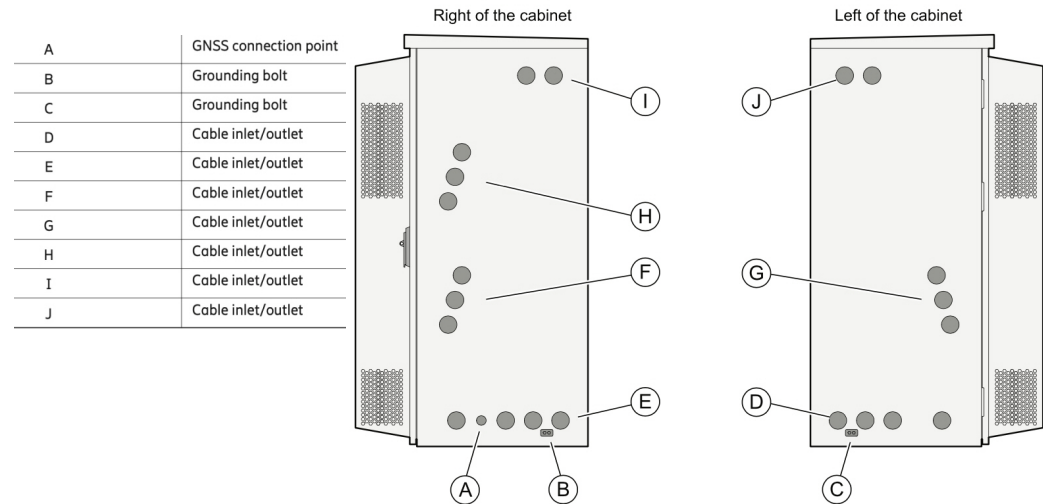
SITE DETAILS

SHEET NUMBER:

A-6

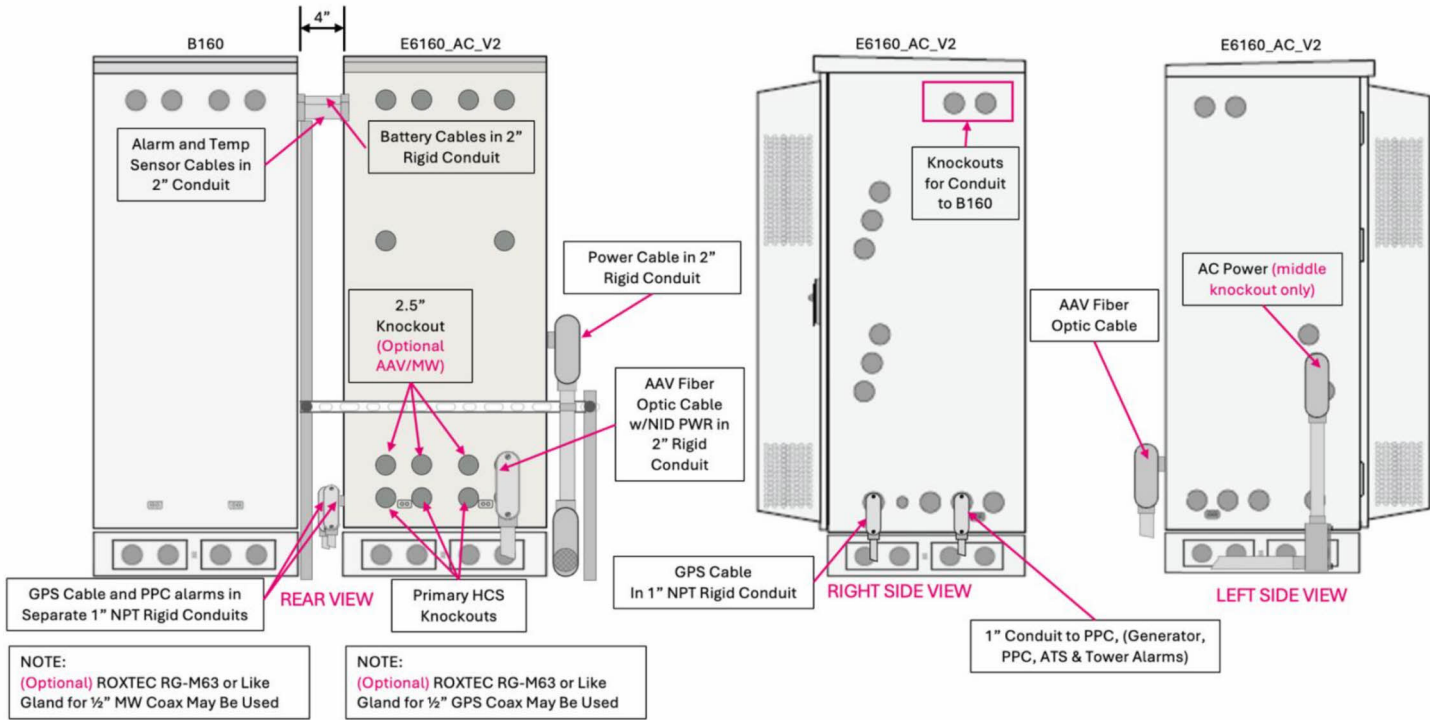


GPS CABLE ROUTING DETAIL
N.T.S.



- NOTES**
- 1.ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS OR SEALING WASHERS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
 - 2.LIQUIDFLEX FLEXIBLE METTALIC METAL CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL / NEC LIMITATIONS. 6' MAX PER CONDUIT RUN.
 - 3.POWER CONDUIT BODY ATTACHED WITH SHORT NIPPLE AND SEALING WASHER INSIDE AND OUT (FOR DOOR HOOD CLEARANCE).
 - 4.PULLING ELBOWS MAY BE USED IN LIEU OF CONDUIT BODIES WHEN CLEARANCE IS LIMITED.
 - 5.ALL EXTERNAL ALARM CONDUITS ARE TO TERMINATE AT THE PPC WITH A SINGLE 1" ALARM CONDUIT TO THE 6160.
 - 6.CONDUIT SHOULD HAVE SEALING WASHERS INSIDE AND OUT WITH LOCK NUT AND CAP. DO NOT USE4 CHASE NIPPLES.

6160 ENCLOSURE DETAIL
N.T.S.



STANDARD CABINET CONFIGURATION
N.T.S.

T-Mobile

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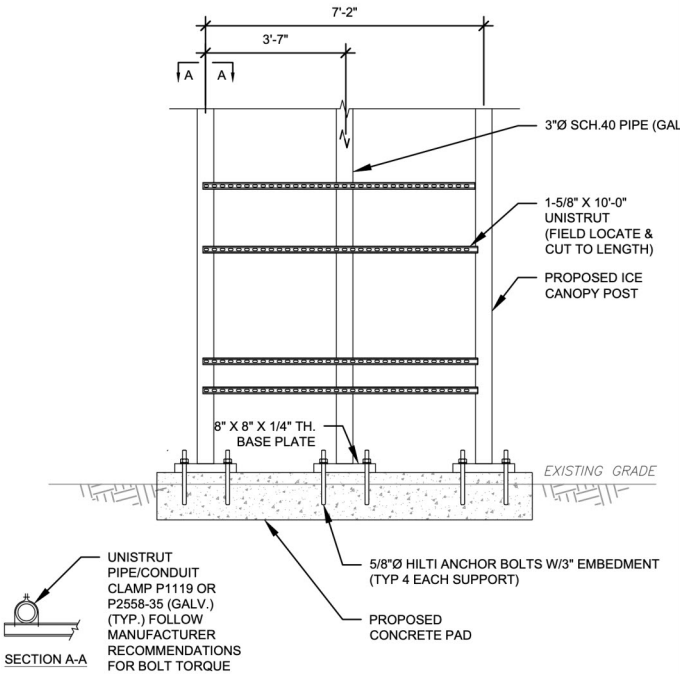
SHEET DESCRIPTION:

CABINET DETAILS

SHEET NUMBER:

A-7

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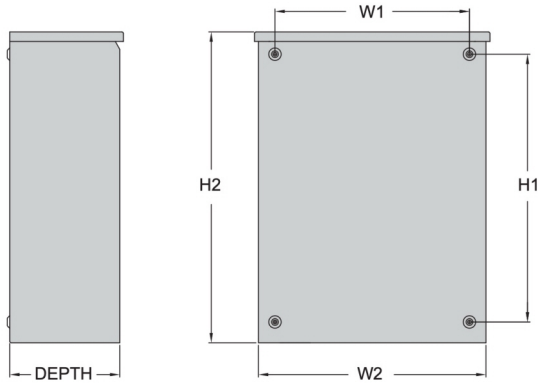
H-FRAME NOTES:

- IF IT IS 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 COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
- UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURERS SPECS.

PROPOSED BACKBOARD DETAIL

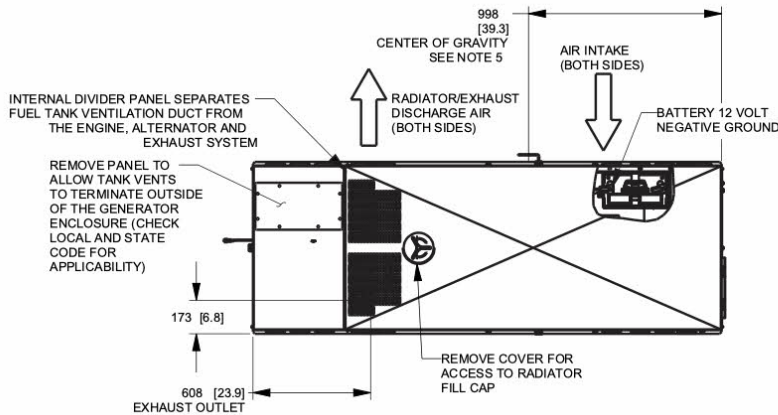
N.T.S.

Model	RXSW200A3	
Height - in (mm)	H1	26.8 (679.4)
	H2	30.0 (672.0)
Width - in (mm)	W1	10.5 (266.7)
	W2	13.5 (342.9)
Depth - in (mm)	6.3 (160.1)	
Weight - lbs (kg)	39.0 (17.7)	

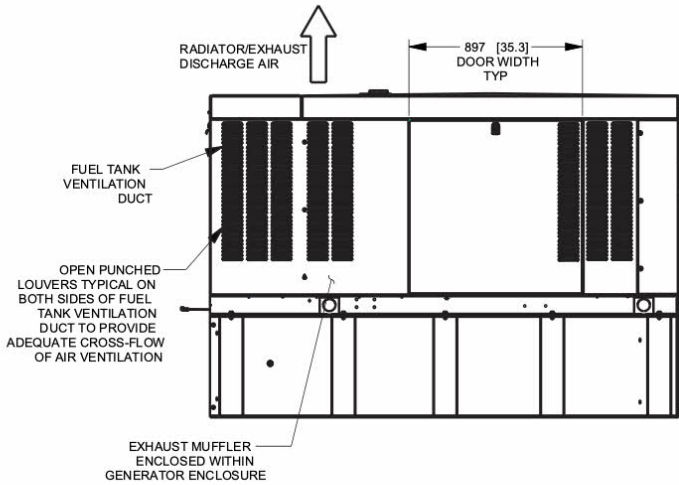


GENERAC AUTOMATIC TRANSFER
SWITCH (RXSC200A3)

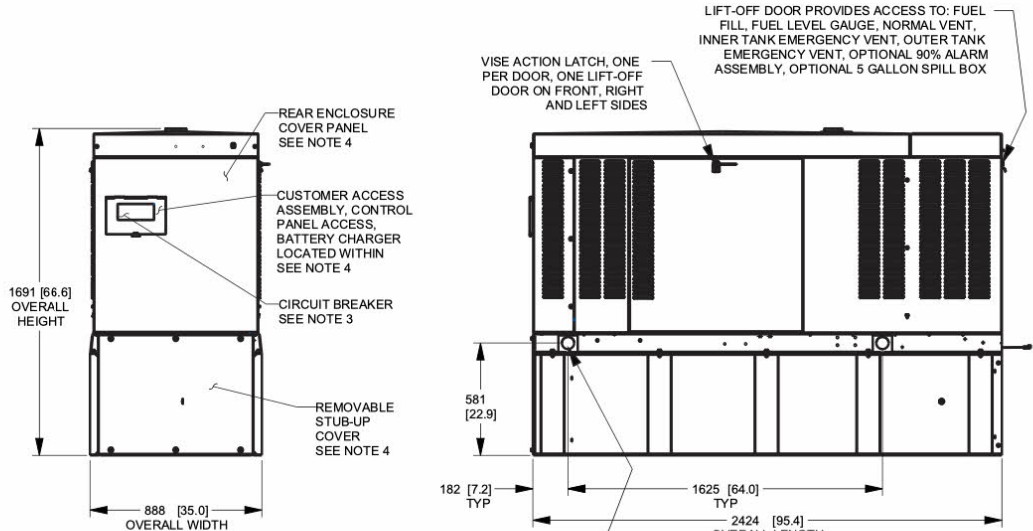
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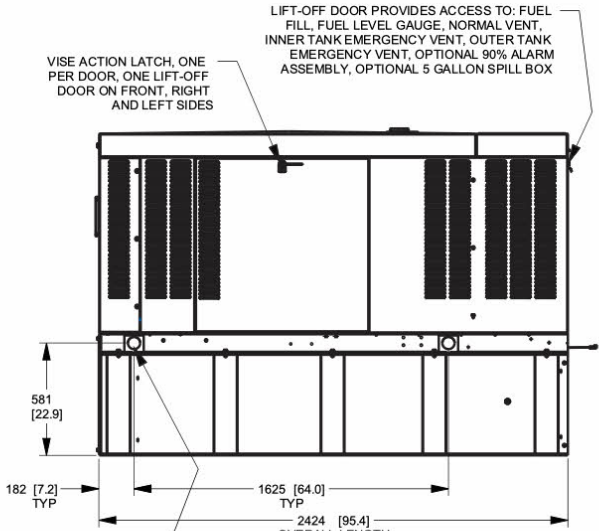
TOP VIEW



LEFT SIDE VIEW



REAR VIEW



RIGHT SIDE VIEW

LIFTING PROVISION (4 PLACES)
SEE NOTES 5, 8 AND CENTER
OF GRAVITY DIMENSIONS

SERVICE ITEM	D3.3L	WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 5)
OIL FILL CAP	LEFT	GENERATOR AS SHOWN 1102 [2429]
OIL DIP STICK	LEFT	WITH WOODEN SHIPPING SKID 1147 [2529]
OIL FILTER	LEFT	
OIL DRAIN HOSE	RIGHT	WEIGHT: KG [LBS]
RADIATOR DRAIN HOSE	RIGHT	DIMENSIONS: MM [INCH]
COOLANT RECOVERY BOTTLE	RIGHT	
RADIATOR FILL CAP ACCESS	ROOF	
AIR CLEANER ELEMENT	RIGHT	
MUFFLER	FRONT	
FAN BELT	EITHER	
BATTERY	RIGHT	

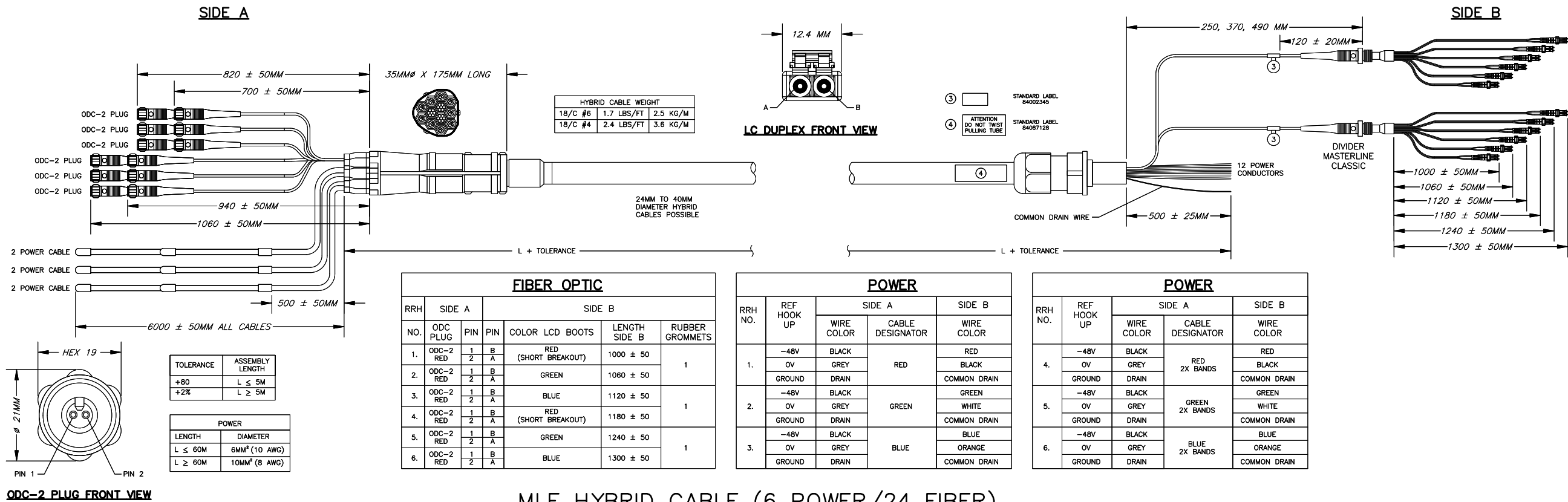
REFERENCE OWNERS MANUAL FOR
PERIODIC REPLACEMENT PART LISTINGS

NOTES:

- MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47') WIDE X 2718 (107') LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES
- ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
- CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR
- REMOVE THE REAR TANK AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION
 - NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
- ENGINE SERVICE CONNECTIONS
 - OIL DRAIN: 3/8" NPT
 - EXHAUST OUTLET: 2" O.D.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
- MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)

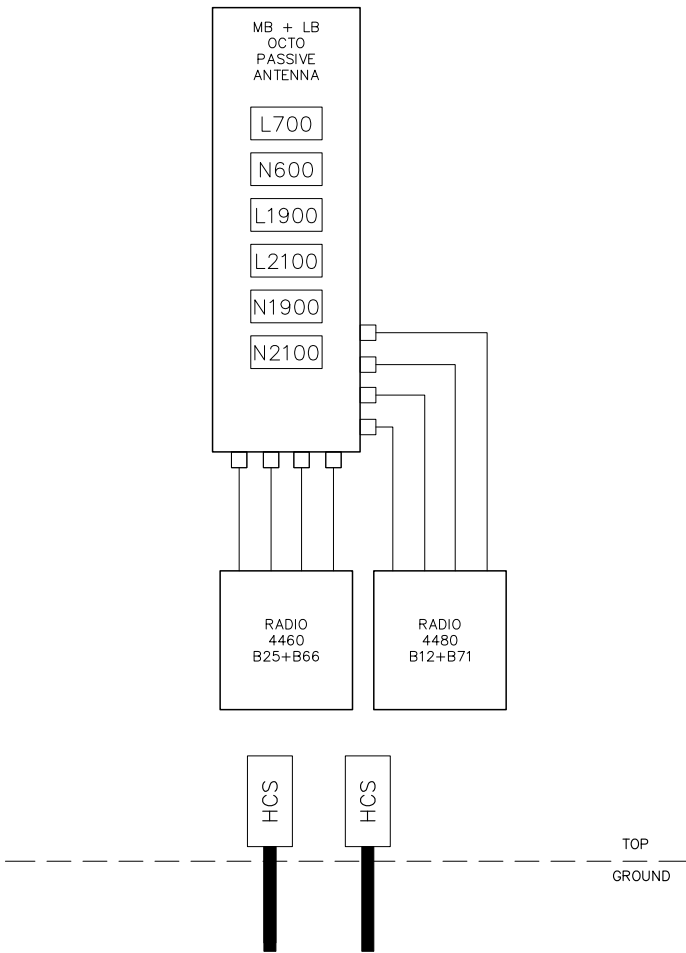
GENERAC 48kW DIESEL GENERATOR (RD048)

N.T.S.



MLE HYBRID CABLE (6 POWER/24 FIBER)

N.T.S.



PLUMBING DIAGRAM

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REVISIONS:	DESCRIPTION	DATE	BY	REV.
ISSUED FOR REVIEW		11/29/24	DWC	A

SITE NAME:

MURRAY HILL

SITE NUMBER:

UP30963A

SITE ADDRESS:

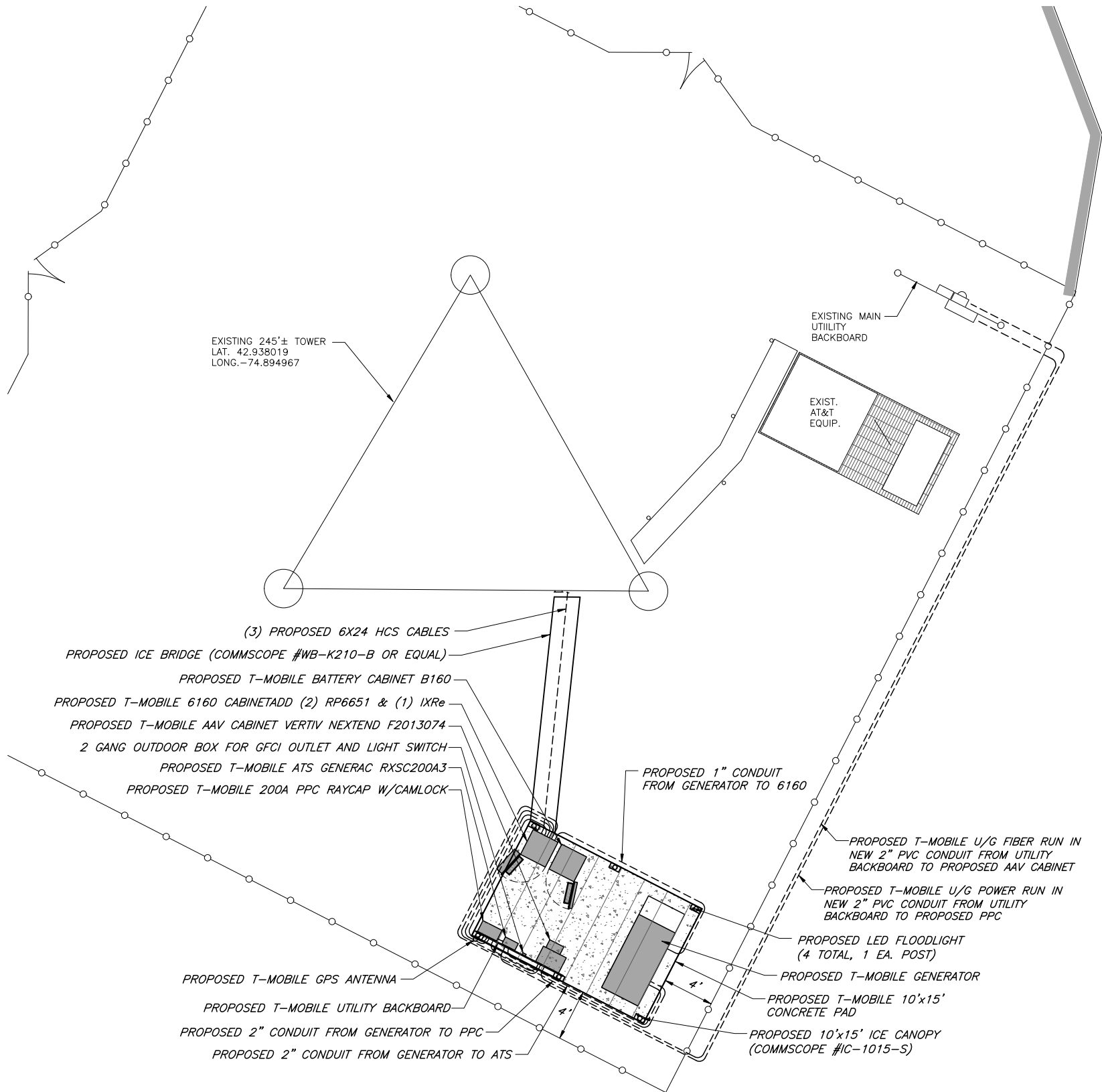
273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

CABLING DETAIL & ANTENNA
CONFIGURATION

SHEET NUMBER:

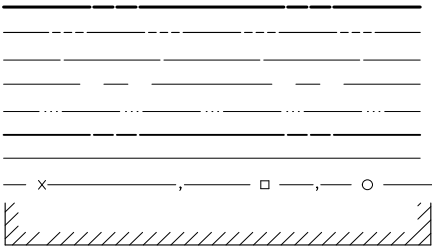
A-9



ELECTRICAL PLAN

SCALE: 1"=5' (22X34)
1"=10' (11X17)

LEGEND



SECTION/PARCEL BOUNDARY
PROPOSED EASEMENT LINE
MIN. BUILDING SETBACK
CENTER LINE
EXIST. EASEMENT LINE
EXIST. RIGHT-OF-WAY LINE
EXIST. EDGE OF PAVEMENT
BARBED WIRE, STOCKADE, CHAIN LINK
EXISTING BUILDING

ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- LOCATE ALL PENETRATIONS SUCH THAT ALL REINFORCEMENT CONTAINED WITHIN THE EXISTING BUILDING CONSTRUCTION REMAINS INTACT AND UNDISTURBED. SUBMIT LOCATING METHOD TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO EXECUTION.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE, EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

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ISSUED FOR REVIEW	11/29/24	DWC	A

SITE NAME:

MURRAY HILL

SITE NUMBER:

UP30963A

SITE ADDRESS:

273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

ELECTRICAL
PLAN

SHEET NUMBER:

E-1

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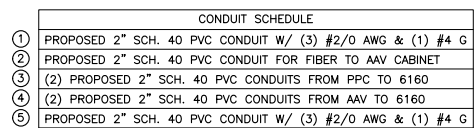
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SHEET NUMBER:	E-2
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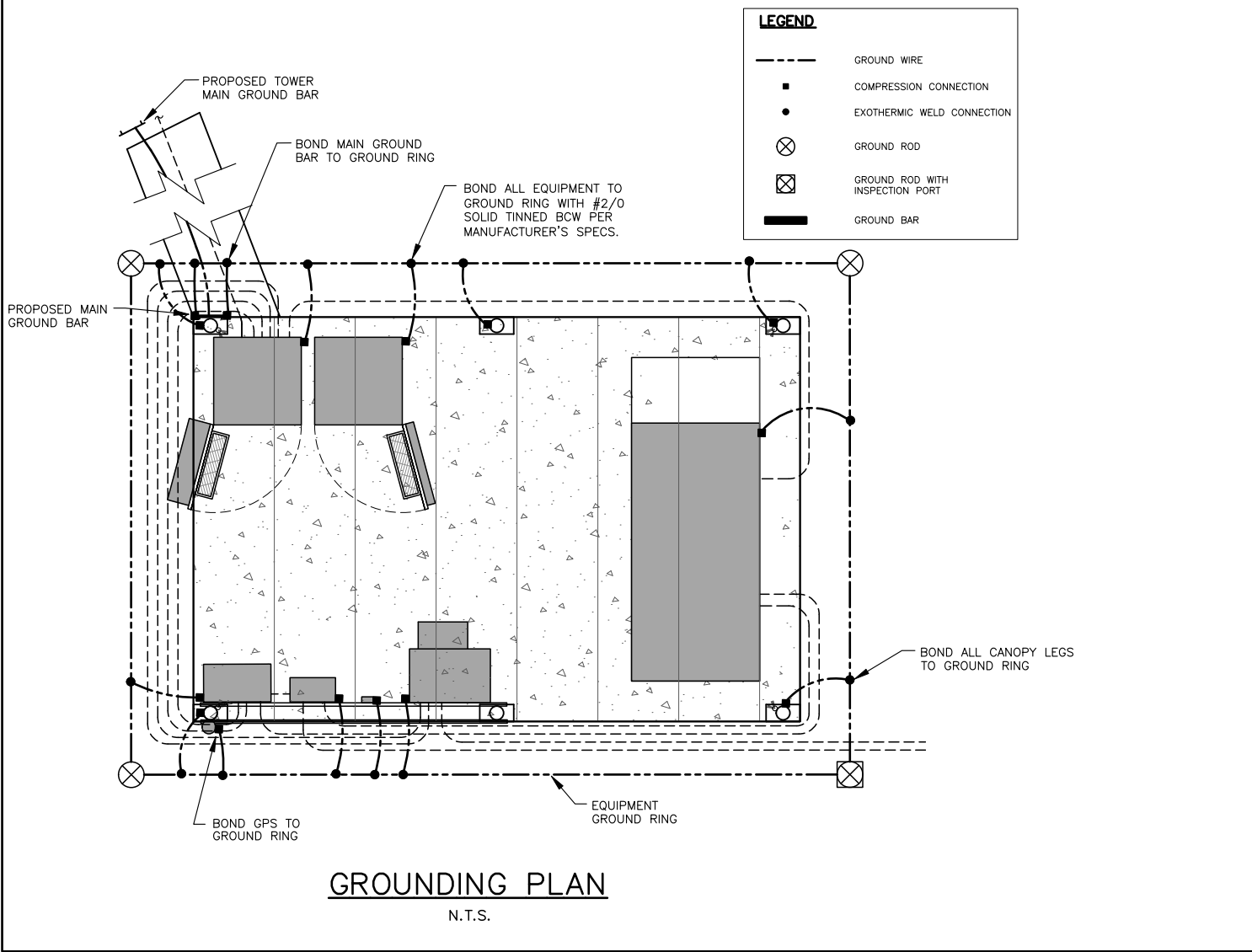
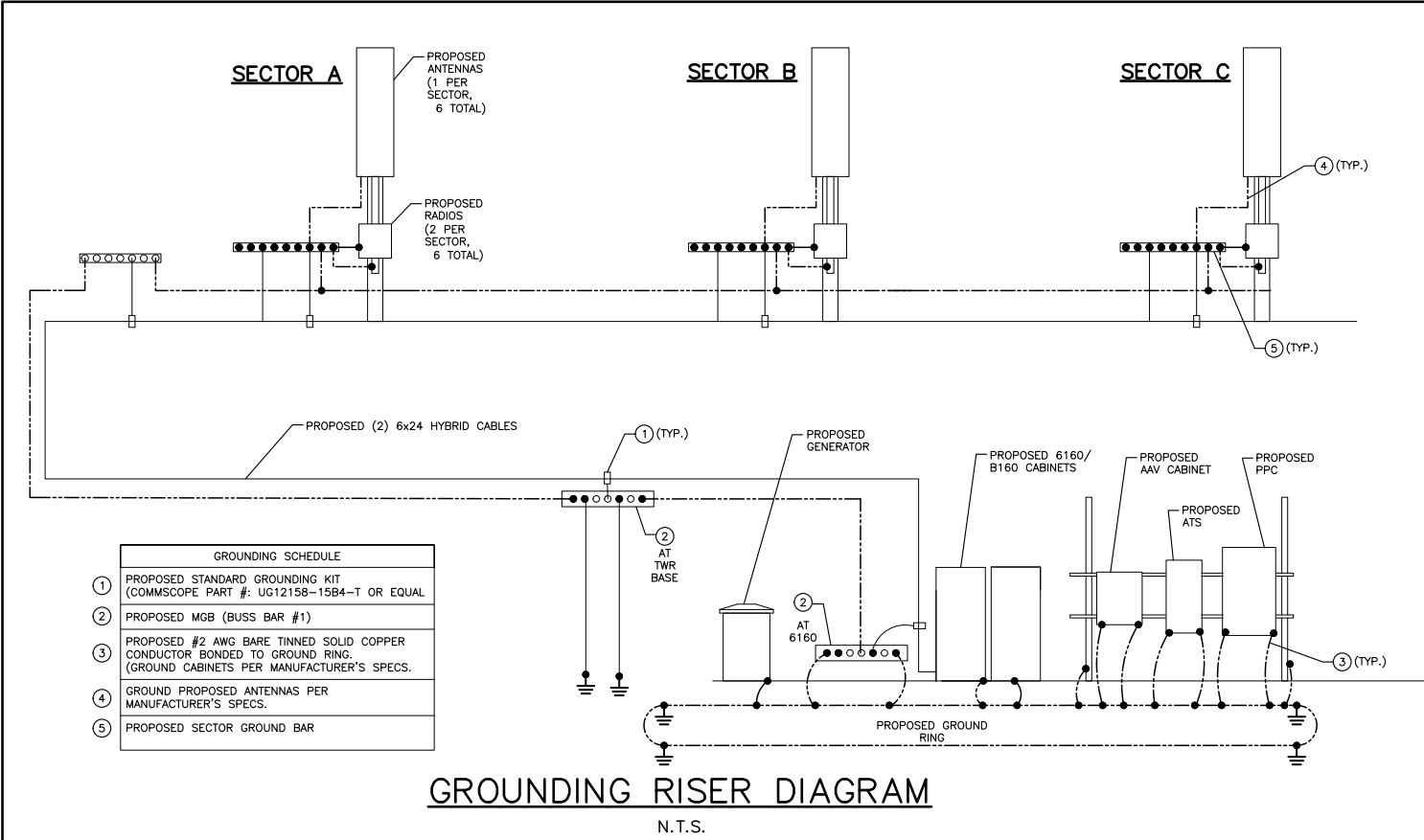
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ELECTRICAL PANEL
N.T.S.

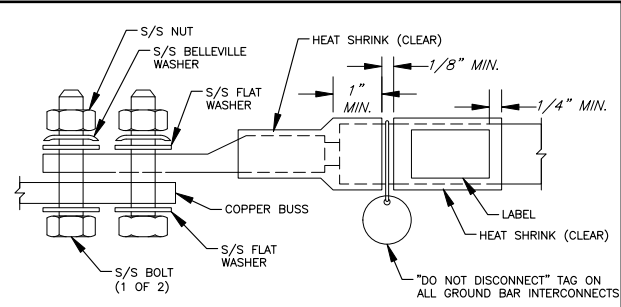


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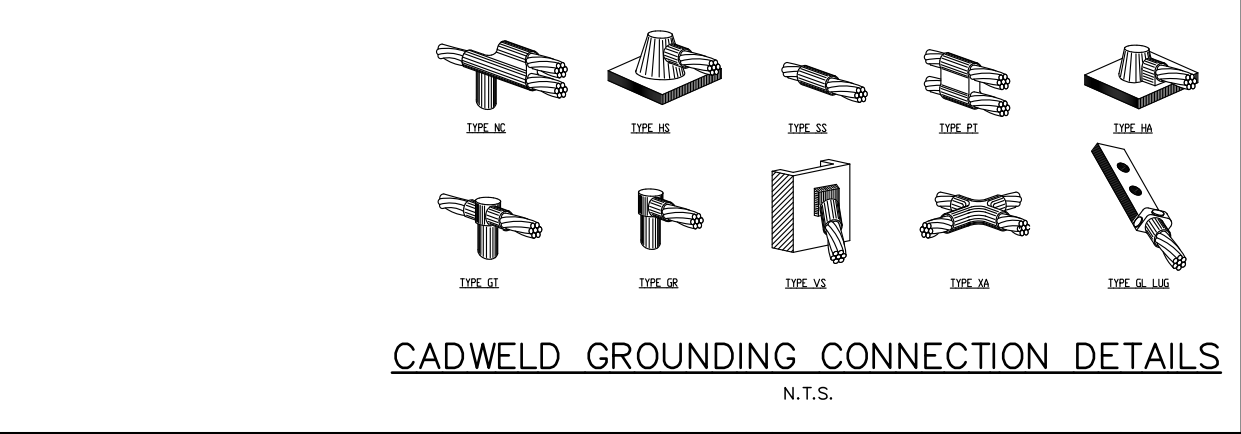
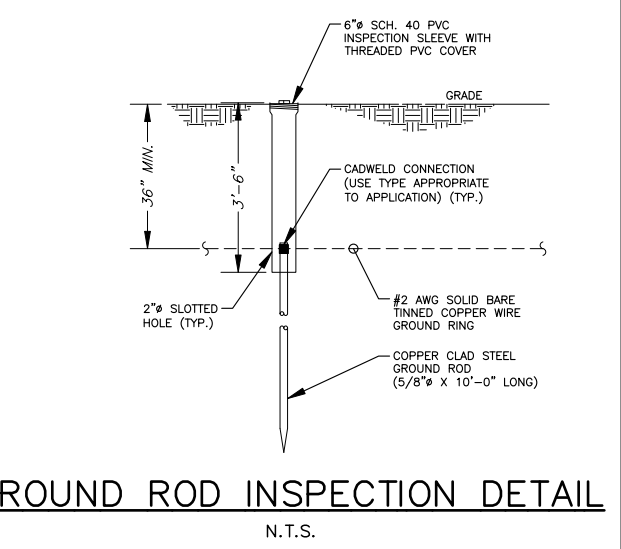
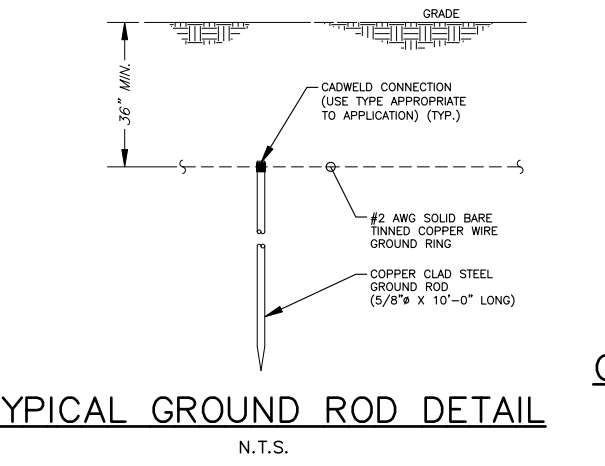
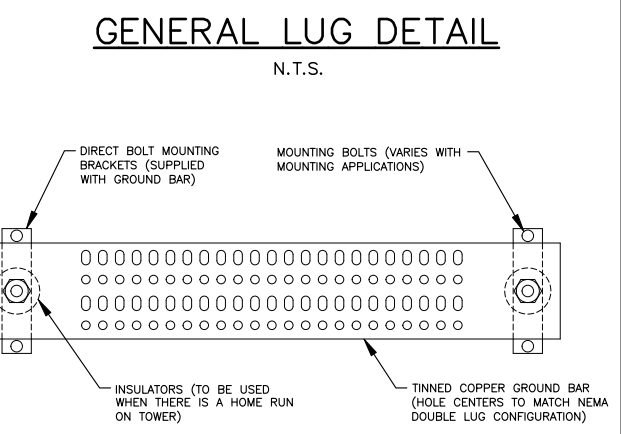




- GROUNDING NOTES:**
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
 - ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
 - ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
 - GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
 - GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
 - GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
 - ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
 - INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
 - REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
 - THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITIONED ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
 - IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
 - EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
 - CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER.
 - ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
 - PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
 - ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
 - WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
 - PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
 - ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.



- NOTES:**
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
 - FOR GROUND ROD TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG & STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
 - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.



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SITE NAME:

MURRAY HILL

SITE NUMBER:

UP30963A

SITE ADDRESS:

273 BARKER ROAD
MOHAWK, NY 13047

SHEET DESCRIPTION:

GROUNDING PLAN & DETAILS

SHEET NUMBER:

G-1