

Application Number \_\_\_\_\_

Fees Preliminary \_\_\_\_\_ Pd \_\_\_\_\_

Fees Final \_\_\_\_\_ Pd \_\_\_\_\_

### Town of Waldoboro

#### Site Plan Review and Subdivision Ordinance Preliminary Application

(Please Type or Print)

Type of Application: X Site Plan Review        Subdivision Ordinance  
       Shoreland Zone        Flood Plain        Hazardous Materials

Brief description of proposed project: \_\_\_\_\_

Install 3 additional antennas, 6 radio units and 3 surge arrestors on existing tower; install 72" x 50" x 32" generator on new 4 x 6' pad

Address: 640 Atlantic Highway, Waldoboro Zoning District: Route 1A Map: R-4 Lot: 23

Name of Applicant: Jack Andrews - Empire Telecom USA LLC obo AT&T Wireless

Address: 10130 Donleigh Drive Town: Columbia State: MD Zip: 21046

Telephone Numbers: 443-877-0144

Local Contact, Name: \_\_\_\_\_ Telephone: \_\_\_\_\_

Name of Owner (if not applicant): American Tower

Address: 10 Presidential Way Town: Woburn State: MA Zip: 01801

Applicant must attach a copy of deed, signed option agreement or lease agreement. If applicant is a corporation, attach certificate from the Secretary of State (Maine) showing authority to do business in Maine.

Name of Applicant's Engineer: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name of Applicant's Attorney: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name of Applicant's Soil Scientist: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name of Applicant's Land Surveyor: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

I certify that the information contained in this application is correct to the best of my knowledge.

Signature (applicant): [Signature] Date: 6/17/19

Title: Jack Andrews, Zoning Manager, Empire Telecom USA LLC

#### Action by the CEO, Planning Board, Board of Appeals

Informal Pre-Application Review:	Date: _____	By: _____
Preliminary Review:	Date: _____	By: _____
Site Walk:	Date: _____	By: _____
Public Hearing:	Date: _____	By: _____
Modifications:	Date: _____	By: _____
Final Review:	Date: _____	By: _____
Modifications:	Date: _____	By: _____
Appeals:	Date: _____	By: _____
Certificate of Occupancy	Date: _____	By: _____

## **AT&T Statement of Use**

**Applicant:** Jack Andrews, Zoning Manager, Empire Telecom USA LCC, on behalf of AT&T Wireless, by its manager, AT&T Mobility Corporation

**Location:** 640 Atlantic Highway Waldoboro ME 04572

**Request:**

- Install 3 additional antennas, 6 Remote Radio Units ("RRU"), 3 new surge arrestors, 6 fiber cables and 2 fiber runs on the existing tower; and
- Install a 6630 unit within the existing equipment cabinet, install 2 new surge arrestors and 2 fiber management boxes on the existing equipment platform; and install a 15kw generator on a proposed 4 by 6 foot pad on grade.

**AT&T Site Number:** ME1266

### **The Existing Facility**

AT&T currently has 3 panel antennas, each 51.3" tall by 6.1" wide by 2.7" deep, and 1 dish antenna mounted at the 150-foot elevation on a 190-foot-tall lattice-type tower located at 640 Atlantic Highway. AT&T antenna facilities are designed in three sectors, labeled as "Alpha", "Beta" and "Gamma"; all 3 sectors currently contain a single panel antenna. The Alpha sector contains a single dish antenna. These are shown on page A-2 of the drawings enclosed with this submission.

In addition to antenna space leased on the tower, AT&T leases a 10 foot by 20-foot area within the fenced compound. As shown on page A-1 of the drawings, AT&T equipment is located on a 12 foot by 6-foot steel platform near the base of the tower. An ice bridge connects the equipment on the platform with the tower.

### **Proposed Modifications**

The Applicant proposes to install three additional antennas at the same elevation as the existing antennas. The proposed new antennas are 96" tall by 19.6" wide by 7.8" deep. Two RRUs per sector will be mounted behind each of the proposed new antennas, for a total of six new RRUs. Three of the new RRUs are 18.1" by 13.4" by 8.3". The other three have dimensions of 14.9" by 13.2" by 10.9". See page A-3 of the drawings. The proposed surge arrestors (31.25" by 9.7") will likewise be mounted behind the antennas.

The proposed power cables and fiber runs will run from the equipment cabinet, through an ice bridge to the tower. As shown on page A-1 of the drawings, the proposed surge arrestors and fiber management boxes will be mounted to the ice bridge posts. The applicant intends to install a new 15-kw diesel emergency generator with dimensions of 72" tall by 30"

wide by 50" deep upon a new 4 foot by 6-foot concrete pad on grade, within AT&T's leased area.

### Conclusion

The facility will remain unmanned and accordingly have no impact upon traffic, parking, water or sewage on-site. No lights or signs are proposed. The proposed modifications will generate no noise, dust, lights, glare, fumes, odors or vibrations. The facility will remain in compliance with all applicable FCC regulations including radio frequency emission requirements. The facility and proposed modifications pose no threat to the public health safety or welfare.

The proposed modifications are minimal and if approved, will not appreciably alter the view from neighboring properties.

AT&T's request to modify the above-referenced facility falls within Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 ("6409"). The law provides, in pertinent part, that, "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station (emphasis added). An "eligible facilities request" is defined as "any request for modification of an existing wireless tower or base station that involves: (A) collocation of new transmission equipment; (B) removal of transmission equipment; or, (C) replacement of transmission equipment." (Emphasis added) See Appendix B, Final Rules; In re Acceleration of Broadband Deployment by Improving Wireless Facilities Siting Policies, Report and Order, FCC 14-153, Oct. 21, 2014, WT Docket No. 13-238, 29 FCC Rcd. 12,842, 80 Fed. Reg. 1238 (Jan. 8, 2015), available at [http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2014/db1021/FCC-14-153A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2014/db1021/FCC-14-153A1.pdf) ("Order").

AT&T's request for modification of its eligible facility will not substantially change the physical dimensions of the facility, nor increase in the height of the tower, nor will there be any expansion of the fenced compound. Insofar as the Town of Waldoboro allows the installation of a wireless antenna facility on the subject property, AT&T's request is appropriate. The Applicant, AT&T Wireless, respectfully requests that the instant modification proposal be approved.

Respectfully Submitted,



Jack Andrews

Zoning Manager, Empire Telecom USA LLC,  
Consultant to AT&T



## Town of Waldoboro, Maine

<http://www.waldoboromaine.org>

P.O. Box J  
Waldoboro, ME 04572-0911  
Phone: (207) 832-5369  
Fax: (207) 832-6061

The following signatures indicate that the applicant for 640 Atlantic Highway has gained approval from the members of the Planning Board on the night of July 10, 2019.

Jim Russo, Vice-Chair of the Planning Board

7/12/19

Maxwell Johnstone, Director of Planning & Development

Note: The Chair of the Planning Board was notified but was unable to sign the document. The Chair was told that the Vice-Chair would be signing in their place and did not object.

**PROJECT INFORMATION**

SCOPE OF WORK: TELECOMMUNICATIONS FACILITY UPGRADE (1C/2C/3C):  
 BASED OFF OF RFDS DATED: 02/15/19 PTN: 14773908, 2052A0L838

TOWER:  
 INSTALL: (3) ANTENNAS, (6) RRR'S, (3) SURGE ARRESTORS,  
 (6) DC POWER CABLES, & (2) FIBER RUNS,  
 MOUNT MODS (SEE S-1)

EQUIPMENT PLATFORM:  
 INSTALL: (1) 6630, (2) DC12 SURGE ARRESTORS  
 (2) FIBER MANAGEMENT BOXES & (1) 15KW GENERATOR.  
 MRCTB036143/MRCTB037153/MRCTB037220

PAGE ID: 640 ATLANTIC HIGHWAY  
 WALDOBORO, ME 04572

SITE ADDRESS: 44° 10' 24" N 44° 06' 00.8" N  
 LONGITUDE: 69° 41' 51" W 69° 24' 54.3" W

TYPE OF SITE: LATTICE TOWER/EQUIPMENT PLATFORM

OVERALL TOWER HEIGHT: 190' - 0" ±  
 RAD CENTER: 150' - 0" ±



**SITE NUMBER: ME1266**  
**SITE NAME: NEWN\_WEST WALDOBORO**  
**PROJECT: 1C/2C/3C UPGRADE**

**DRAWING INDEX**

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**ATC SITE NAME: WALDOBORO**  
**ATC SITE ID: 371996**

**VICINITY MAP**

DIRECTIONS TO SITE:

GET ON I-90 E/MASSACHUSETTS TURNPIKE FROM SPEEN ST HEAD NORTHEAST TOWARD SPEEN ST, TURN RIGHT TOWARD SPEEN ST, TURN RIGHT ONTO COCHITUATE RD, USE THE RIGHT LANE TO TAKE THE RAMP TO I90/MASSPIKE/SPRINGELD/BOSTON (TOLL ROAD), KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 90 E/INTERSTATE 95/MASSACHUSETTS TURNPIKE/BOSTON AND MERGE ONTO I-90 E/MASSACHUSETTS TURNPIKE (TOLL ROAD) FOLLOW I-95 N AND I-295 N TO US-1 N IN BRUNSWICK, TAKE EXIT 28 FROM I-295 N MERGE ONTO I-90 E/MASSACHUSETTS TURNPIKE (SIGNS FOR 90 E/I-95/BOSTON) (TOLL ROAD), USE THE RIGHT 2 LANES TO TAKE EXIT 14 TOWARD N.H. - MAINE/I-95/MA-128/S SHORE (PARTIAL TOLL ROAD), KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-95 N AND MERGE ONTO I-95 N/MA-128 N, KEEP RIGHT AT THE FORK TO CONTINUE ON I-95 N, FOLLOW SIGNS FOR PORTSMOUTH NH (PARTIAL TOLL ROAD) ENTERING NEW HAMPSHIRE, KEEP LEFT AT THE FORK TO STAY ON I-95 N (PARTIAL TOLL ROAD) ENTERING MAINE, KEEP RIGHT AT THE FORK TO CONTINUE ON I-295 N, FOLLOW SIGNS FOR S PORTLAND/DOWNTOWN PORTLAND (PARTIAL TOLL ROAD), USE THE RIGHT 2 LANES TO TAKE EXIT 28 TO MERGE ONTO US-1 N TOWARD COASTAL RTE/BRUNSWICK BATH DRIVE TO US-1 N IN WALDOBORO MERGE ONTO US-1 N, TURN LEFT ONTO US-1 N/MILL ST CONTINUE TO FOLLOW US-1 N. DESTINATION WILL BE ON THE LEFT.



**GENERAL NOTES**

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

**UNDERGROUND SERVICE ALERT**



**WWW.DIGSAFE.COM**  
**72 HOURS PRIOR**



**SITE NUMBER: ME1266**  
**SITE NAME: NEWN\_WEST WALDOBORO**  
**ATC SITE ID: 371996**  
 640 ATLANTIC HIGHWAY  
 WALDOBORO, ME 04572  
 LINCOLN COUNTY

**EMPIRE telecom**  
 16 ESQUIRE ROAD  
 BILLERICA, MA 01862  
 TEL: (978) 608-8400

**HUDSON**  
 Design Group LLC  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 TEL: (978) 537-5533  
 FAX: (978) 334-5596

NO.	DATE	REVISIONS	BY	CHK	APP'D
3	05/08/19	ISSUED FOR REVIEW	RP	JF	DC
2	04/05/19	ISSUED FOR REVIEW	VP	JF	DC
1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC
DESIGNED BY: JF			DRAWN BY: JW		
SCALE: AS SHOWN			JOB NUMBER: ME1266		
REV			DRAWING NUMBER		
3			T-1		

AT&T  
 TITLE SHEET  
 (1C/2C/3C)

**GROUNDING NOTES**

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 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.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 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 BITS EQUIPMENT.
- EACH BITS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES. 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

**GENERAL NOTES**

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR - EMPIRE  
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER - AT&T MOBILITY
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 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. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 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.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- APPLICABLE BUILDING CODES:  
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: IBC 2015 WITH MAINE UNIFORM BUILDING CODE AMENDMENTS  
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS  
SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;  
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**ABBREVIATIONS**

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTOW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

NO.	DATE	REVISIONS	BY	CHK	APP'D
3	05/08/19	ISSUED FOR REVIEW	RP	JF	DC
2	04/05/19	ISSUED FOR REVIEW	VP	JF	DC
1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC

SCALE: AS SHOWN DESIGNED BY: JF DRAWN BY: JW

JOB NUMBER	DRAWING NUMBER	REV
ME1266	GN-1	3

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**SITE NUMBER: ME1266**  
**SITE NAME: NEWN\_WEST WALDOBORO**  
**ATC SITE ID: 371996**  
640 ATLANTIC HIGHWAY  
WALDOBORO, ME 04572  
LINCOLN COUNTY

**EMPIRE telecom**  
16 ESQUIRE ROAD  
BILLERICA, MA 01862  
TEL: (978) 608-8400

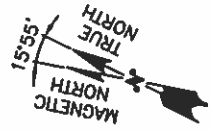
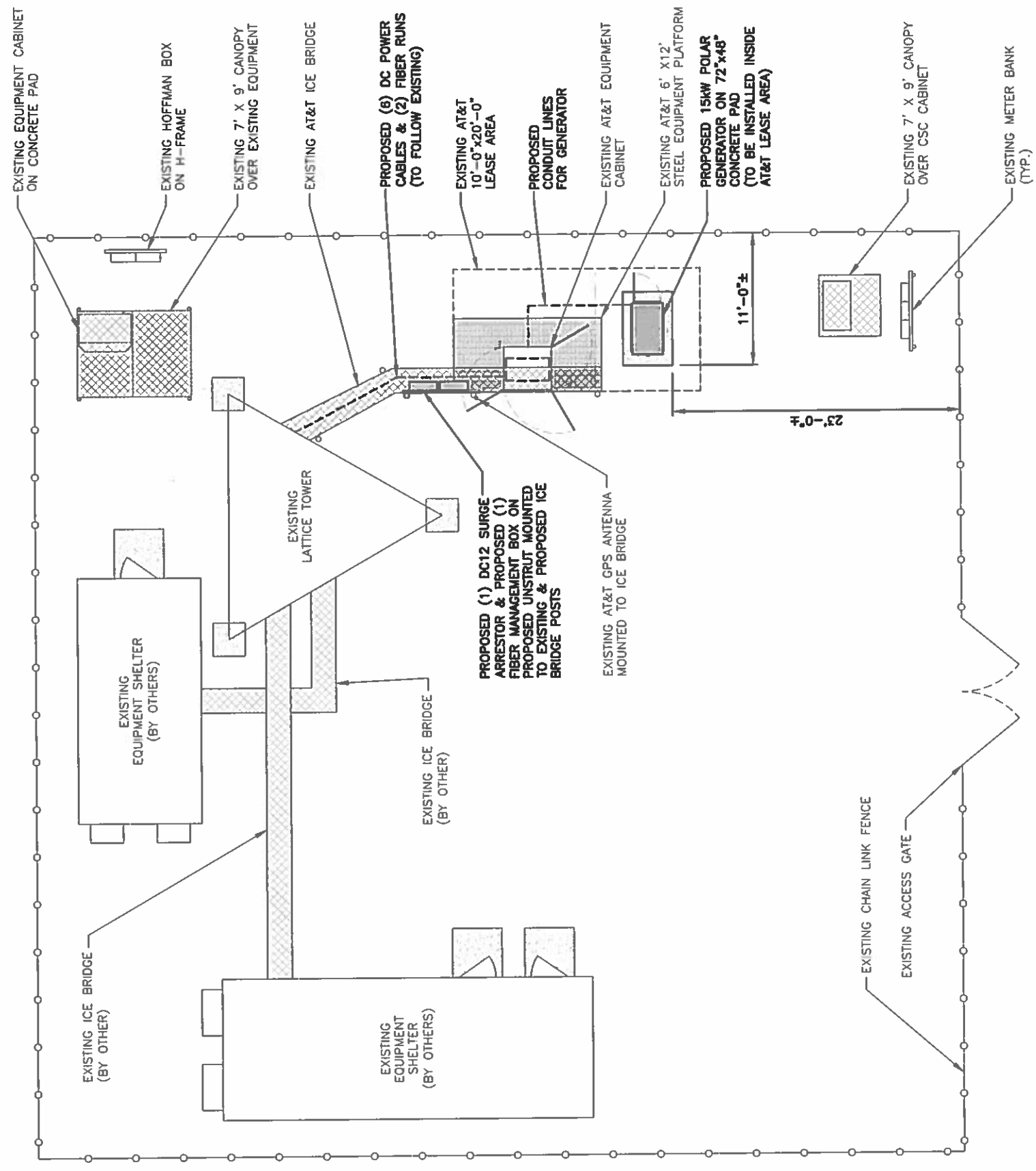
**HUDSON Design Group LLC**  
45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 552-5553  
FAX: (978) 336-5586

**AT&T**  
GENERAL NOTES  
(1C/2C/3C)

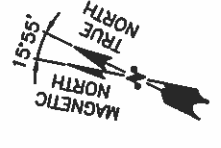
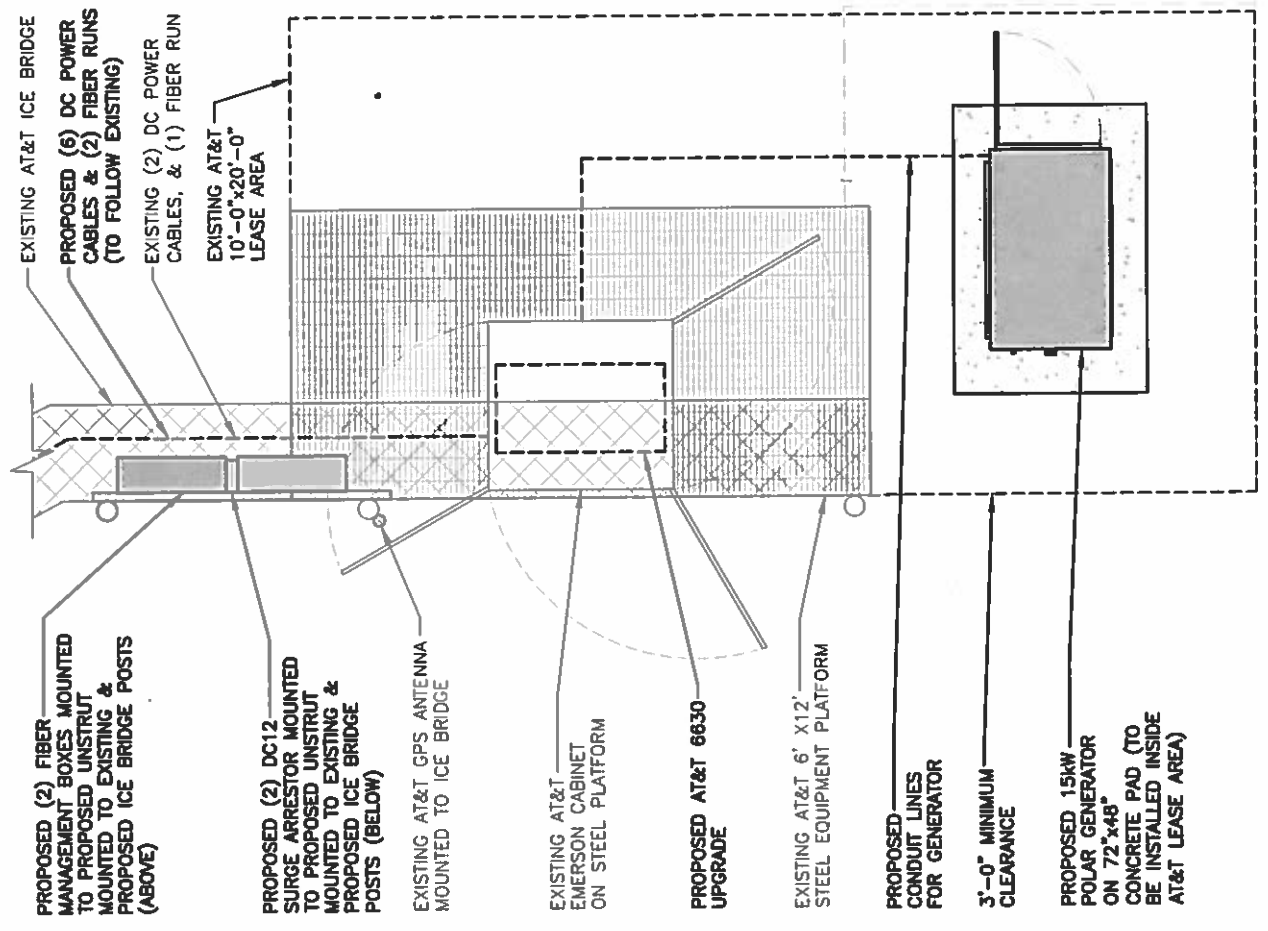
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER CORP. AND FINAL AT&T RF DATA SHEET.

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019.

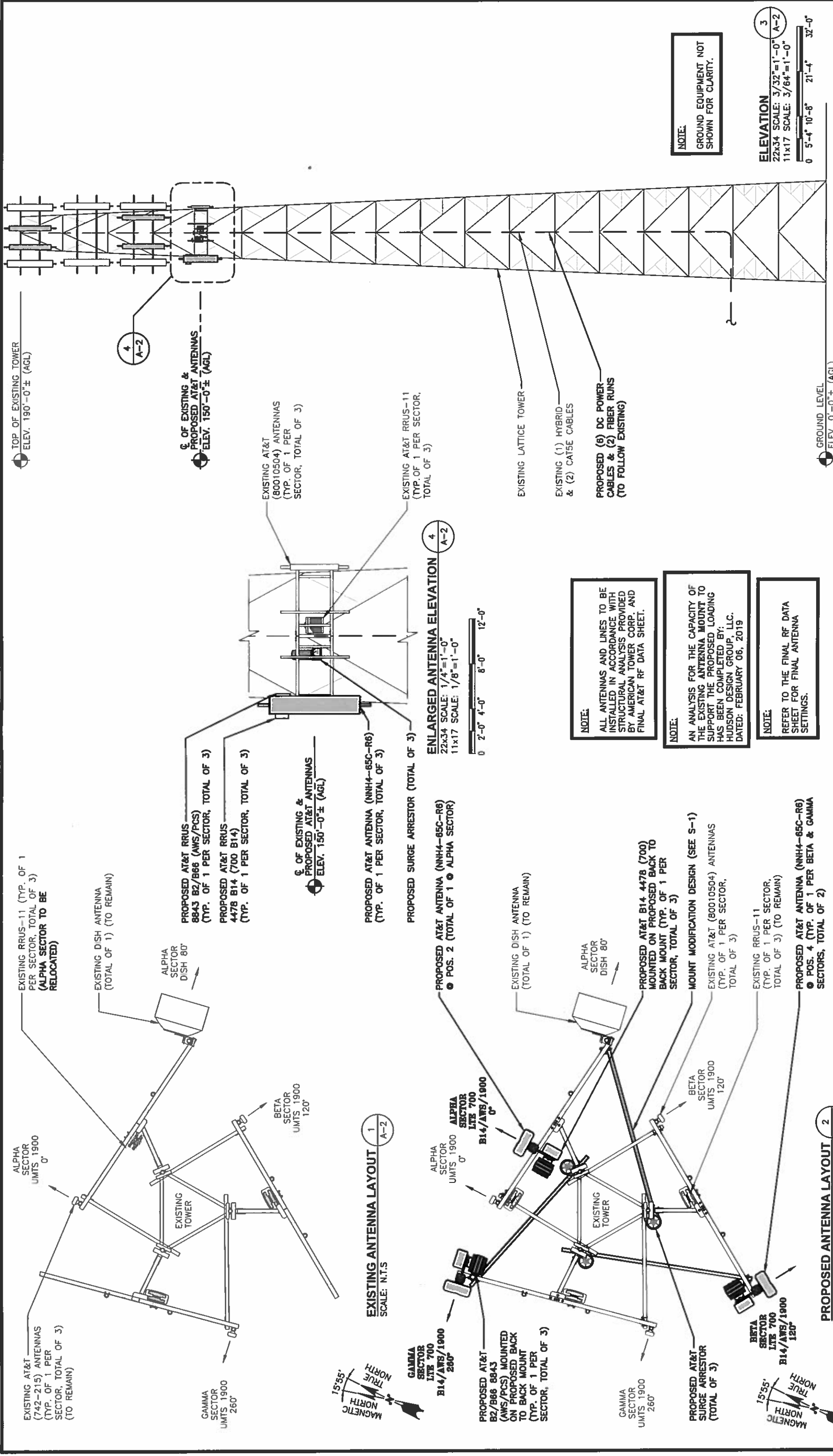


**COMPOUND PLAN**  
22x34 SCALE: 3/16"=1'-0"  
11x17 SCALE: 3/32"=1'-0"



**EQUIPMENT PLAN**  
22x34 SCALE: 1/2"=1'-0"  
11x17 SCALE: 1/4"=1'-0"





**NOTE:**  
GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

**ELEVATION**  
22x34 SCALE: 3/32"=1'-0"  
11x17 SCALE: 3/64"=1'-0"  
0 5'-4" 10'-8" 21'-4" 32'-0"

GROUND LEVEL  
ELEV. 0'-0"± (AGL)

TOP OF EXISTING TOWER  
ELEV. 190'-0"± (AGL)

⊙ OF EXISTING & PROPOSED AT&T ANTENNAS  
ELEV. 150'-0"± (AGL)

EXISTING AT&T (80010504) ANTENNAS (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING AT&T RRUS-11 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING LATTICE TOWER  
EXISTING (1) HYBRID & (2) CAT5E CABLES  
PROPOSED (6) DC POWER CABLES & (2) FIBER RUNS (TO FOLLOW EXISTING)

**ENLARGED ANTENNA ELEVATION**  
22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"  
0 2'-0" 4'-0" 8'-0" 12'-0"

**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER CORP. AND FINAL AT&T RF DATA SHEET.

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019

**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

EXISTING RRUS-11 (TYP. OF 1 PER SECTOR, TOTAL OF 3) (ALPHA SECTOR TO BE RELOCATED)

EXISTING DISH ANTENNA (TOTAL OF 1) (TO REMAIN)

PROPOSED AT&T RRUS 8843 B2/B66 (AWS/PCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3)  
PROPOSED AT&T RRUS 4478 B14 (700 B14) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

⊙ OF EXISTING & PROPOSED AT&T ANTENNAS  
ELEV. 150'-0"± (AGL)

PROPOSED AT&T ANTENNA (NNH4-65C-R6) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED SURGE ARRESTOR (TOTAL OF 3)

PROPOSED AT&T ANTENNA (NNH4-65C-R6) ⊙ POS. 2 (TOTAL OF 1 ⊙ ALPHA SECTOR)

EXISTING DISH ANTENNA (TOTAL OF 1) (TO REMAIN)

PROPOSED AT&T B14 4478 (700) MOUNTED ON PROPOSED BACK TO BACK MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)

MOUNT MODIFICATION DESIGN (SEE S-1)  
EXISTING AT&T (80010504) ANTENNAS (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING RRUS-11 (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REMAIN)

PROPOSED AT&T ANTENNA (NNH4-65C-R6) ⊙ POS. 4 (TYP. OF 1 PER BETA & GAMMA SECTORS, TOTAL OF 2)

EXISTING AT&T (742-215) ANTENNAS (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REMAIN)

EXISTING TOWER

GAMMA SECTOR UMTS 1900 260°

BETA SECTOR UMTS 1900 120°

MAGNETIC NORTH  
TRUE NORTH  
15°55'

**EXISTING ANTENNA LAYOUT**  
SCALE: N.T.S.  
1 A-2

GAMMA SECTOR UMTS 1900 260°

BETA SECTOR UMTS 1900 120°

PROPOSED AT&T B2/B66 8843 (AWS/PCS) MOUNTED ON PROPOSED BACK TO BACK MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T SURGE ARRESTOR (TOTAL OF 3)

MAGNETIC NORTH  
TRUE NORTH  
15°55'

**PROPOSED ANTENNA LAYOUT**  
SCALE: N.T.S.  
2 A-2

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TEL: (978) 608-8400

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**AT&T**  
ANTENNA LAYOUTS & ELEVATIONS  
(1C/2C/3C)

NO.	DATE	REVISIONS	BY	CHK	APP'D
3	05/06/19	ISSUED FOR REVIEW	RP	JF	DC
2	04/05/19	ISSUED FOR REVIEW	VP	JF	DC
1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC

SCALE: AS SHOWN  
DESIGNED BY: JF  
DRAWN BY: JW

SITE NUMBER: ME1266  
SITE NAME: NEWN WEST WALDOBORO  
ATC SITE ID: 371996  
640 ATLANTIC HIGHWAY  
WALDOBORO, ME 04572  
LINCOLN COUNTY

JOB NUMBER: ME1266  
DRAWING NUMBER: A-2  
REV: 3

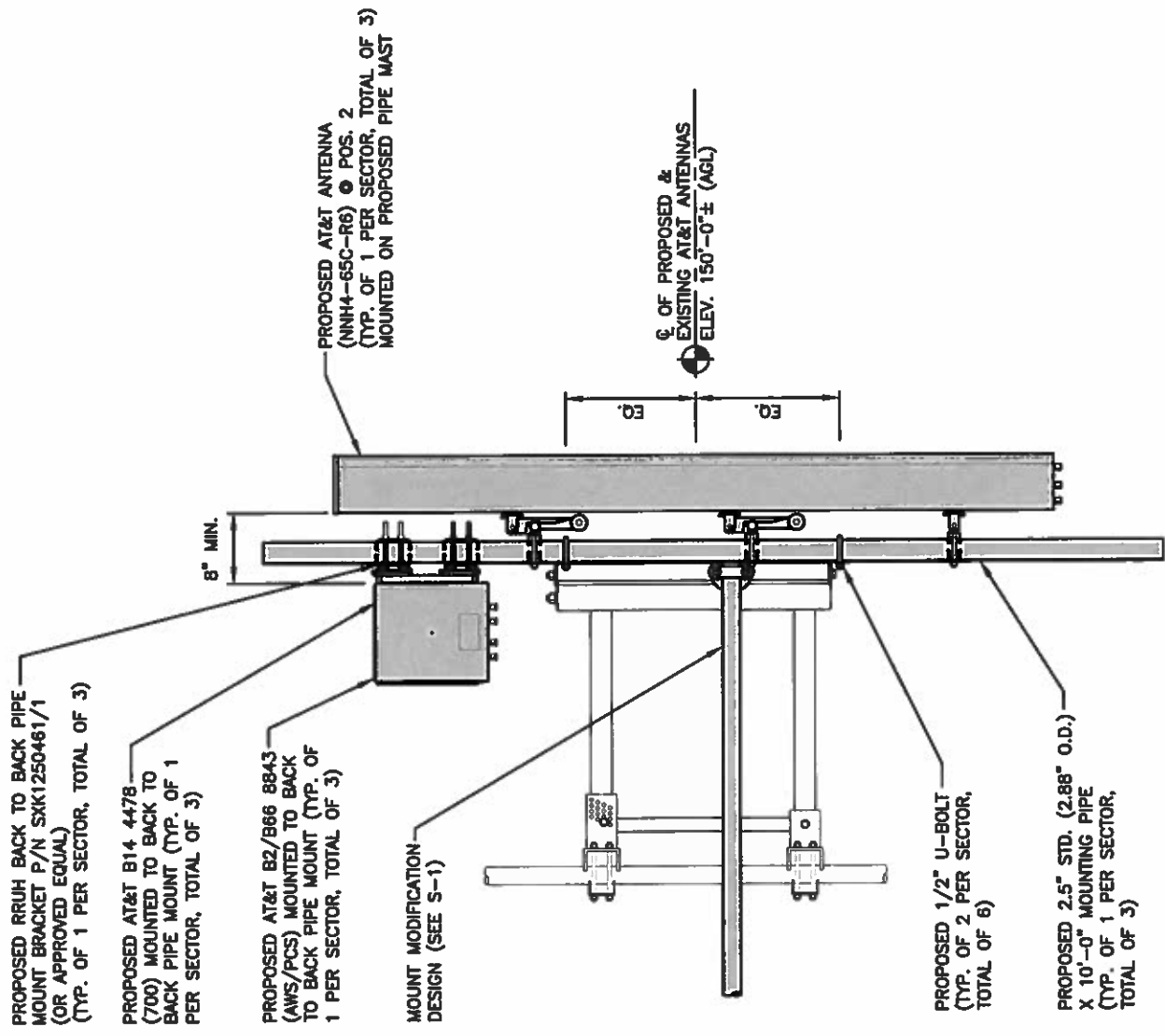


**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019

**NOTE:**  
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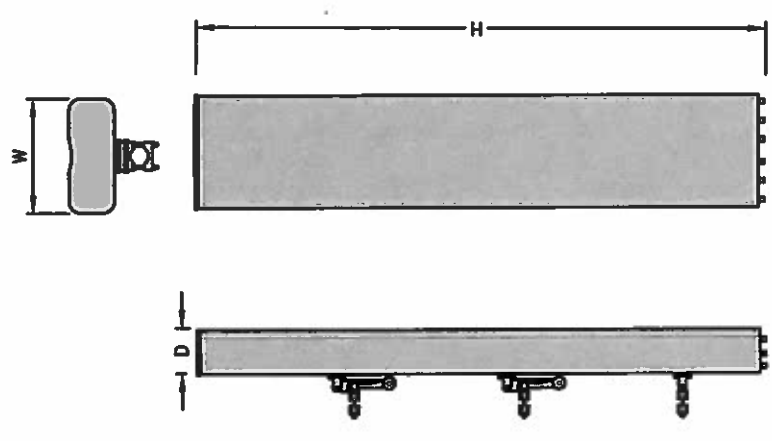
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

LTE ANTENNA DIMENSIONS	
MODEL #	NNH4-65C-R6
MANUF.	COMMSCOPE
HEIGHT	96"
WIDTH	19.6"
DEPTH	7.8"
WEIGHT	102 LBS



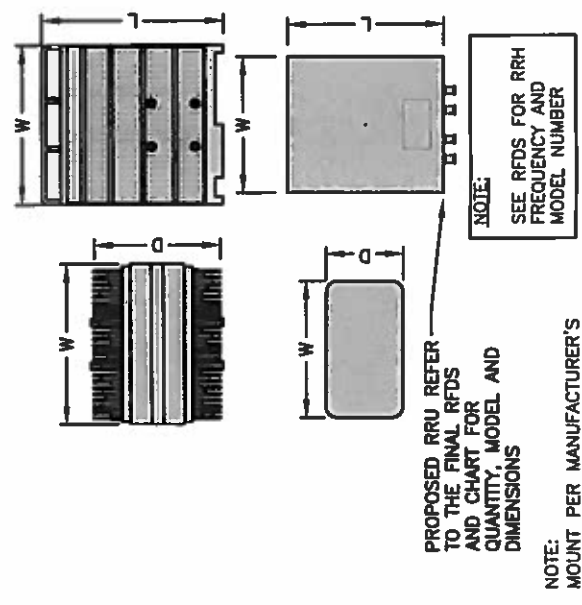
**PROPOSED LTE ANTENNA & RRU MOUNTING DETAIL**  
22x34 SCALE: 1"=1'-0"  
11x17 SCALE: 1/2"=1'-0"

2  
A-3



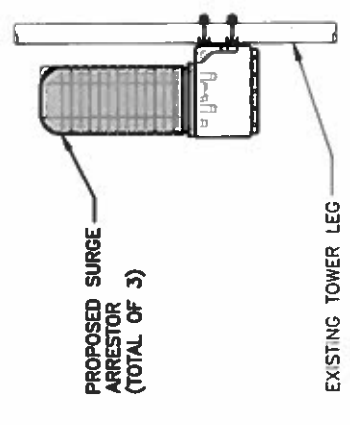
**LTE ANTENNA DETAIL**  
SCALE: N.T.S

1  
A-3



**DC SURGE SUPPRESSOR DETAIL**  
SCALE: N.T.S

4  
A-3



**PROPOSED SURGE ARRESTOR MOUNTING DETAIL**  
SCALE: N.T.S

5  
A-3

**HUDSON** Design Group LLC  
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**EMPIRE telecom**  
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BILLERICA, MA 01862  
TEL: (978) 608-8400

**at&t**  
SITE NUMBER: ME1266  
SITE NAME: NEWN WEST WALDOBORO  
ATC SITE ID: 371996  
640 ATLANTIC HIGHWAY  
WALDOBORO, ME 04572  
LINCOLN COUNTY

NO.	DATE	ISSUED FOR REVIEW	REVISIONS	DESIGNED BY:	CHK	APP'D
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SCALE: AS SHOWN  
DRAWN BY: JW

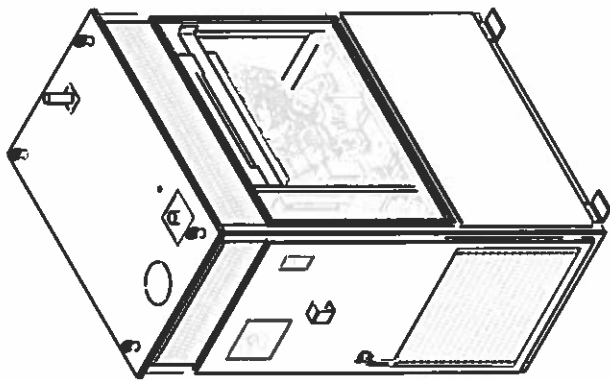
**AT&T**  
DETAILS  
(1C/2C/3C)  
JOB NUMBER: ME1266  
DRAWING NUMBER: A-3  
REV: 3

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019.

**NOTE:**  
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**NOTE:**  
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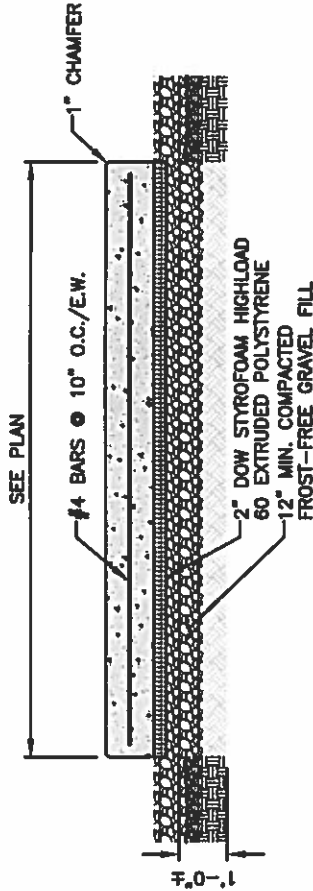
15 KW GENERATOR DIMENSIONS	
MODEL #	8220-603-0-15
MANUF.	POLAR POWER INC.
HEIGHT	72"
WIDTH	30"
LENGTH	50"
FUEL TANK SIZE	54 GALLON



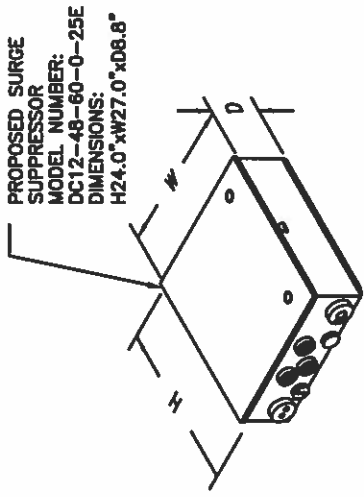
**GENERATOR DETAIL**  
SCALE: N.T.S.

**FOUNDATION NOTES & CONCRETE SPECIFICATIONS:**

- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%).
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
- COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.

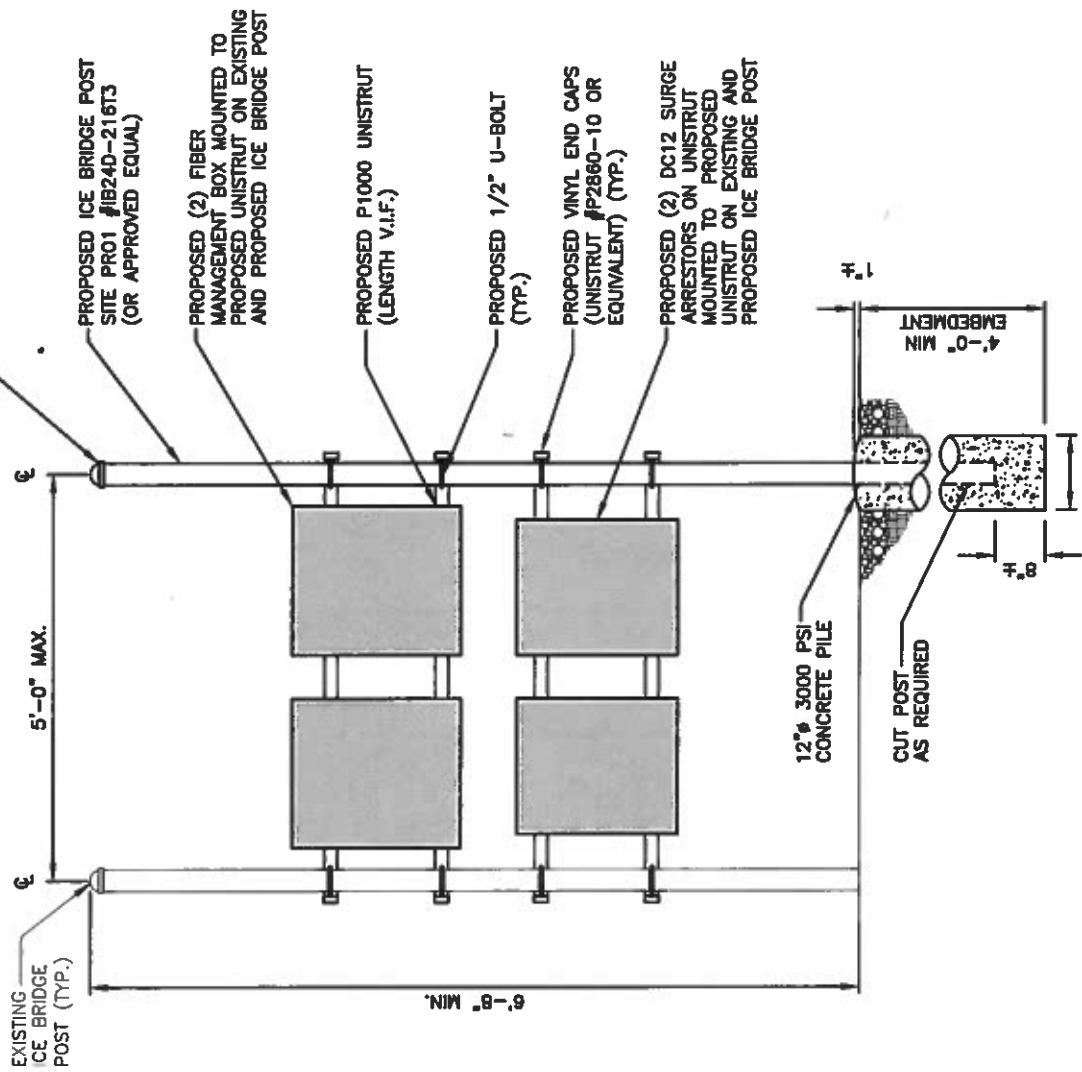


**CONCRETE PAD DETAIL**  
SCALE: N.T.S.



**NOTE:**  
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**PROPOSED DC12 SURGE SUPPRESSOR DETAIL**  
SCALE: N.T.S.



**PROPOSED FIBER MANAGEMENT BOX & DC12 MOUNTING DETAIL**  
SCALE: N.T.S.

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**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

SITE NUMBER: ME1266  
SITE NAME: NEWN\_WEST WALDOBORO  
ATC SITE ID: 371996  
640 ATLANTIC HIGHWAY  
WALDOBORO, ME 04572  
LINCOLN COUNTY

NO.	DATE	REVISIONS	BY	CHK	APP'D
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2	04/05/19	ISSUED FOR REVIEW	VP	JF	DC
1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC

SCALE: AS SHOWN  
DESIGNED BY: JF  
DRAWN BY: JW

AT&T  
GENERATOR DETAILS  
(1C/2C/3C)

JOB NUMBER: ME1266  
DRAWING NUMBER: A-4  
REV: 3

**NOTE:**

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019.

**NOTE:**

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**NOTE:**

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**ANTENNA SCHEDULE**

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA & HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	RAYCAP
A1	EXISTING	UMTS	80010504	51.3x6.1x2.7	±150'-0"	0°	-	(E) (1) RRUS-11 B2 (PCS)	19.7X17X7.2	(P)(1) RAYCAP DC6-48-60-18-8C-EV
A2	PROPOSED	LTE 700 B14/AWS/1900	NNH4-65C-R6	96x19.6x7.8	±150'-0"	0°	-	(P) (1) B14 4478 (700) (P) (1) B2/B66A 8643 (AWS/PCS)	18.1x13.4x8.3 14.9x13.2x10.9	(P)(1) RAYCAP DC6-48-60-18-8C-EV
A3	-	-	-	-	-	-	-	-	-	-
A4	-	-	-	-	-	-	-	-	-	-
B1	EXISTING	UMTS	80010504	51.3x6.1x2.7	±150'-0"	120°	-	(E) (1) RRUS-11 B2 (PCS)	19.7X17X7.2	(P)(1) RAYCAP DC6-48-60-18-8C-EV
B2	-	-	-	-	-	-	-	-	-	-
B3	-	-	-	-	-	-	-	-	-	-
B4	PROPOSED	LTE 700 B14/AWS/1900	NNH4-65C-R6	96x19.6x7.8	±150'-0"	120°	-	(P) (1) B14 4478 (700) (P) (1) B2/B66A 8643 (AWS/PCS)	18.1x13.4x8.3 14.9x13.2x10.9	(P)(1) RAYCAP DC6-48-60-18-8C-EV
C1	EXISTING	UMTS	80010504	51.3x6.1x2.7	±150'-0"	260°	-	(E) (1) RRUS-11 B2 (PCS)	19.7X17X7.2	(P)(1) RAYCAP DC6-48-60-18-8C-EV
C2	-	-	-	-	-	-	-	-	-	-
C3	-	-	-	-	-	-	-	-	-	-
C4	PROPOSED	LTE 700 B14/AWS/1900	NNH4-65C-R6	96x19.6x7.8	±150'-0"	260°	-	(P) (1) B14 4478 (700) (P) (1) B2/B66A 8643 (AWS/PCS)	18.1x13.4x8.3 14.9x13.2x10.9	(P)(1) RAYCAP DC6-48-60-18-8C-EV

FINAL ANTENNA SCHEDULE  
SCALE: N.T.S.



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SITE NUMBER: ME1266  
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640 ATLANTIC HIGHWAY  
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LINCOLN COUNTY

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	DESIGNED BY:	CHK APP'D	SCALE:	AS SHOWN	DRAWN BY:
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2	04/05/19	ISSUED FOR REVIEW		VP	JF	DC	
1	03/13/19	ISSUED FOR REVIEW		JW	JF	DC	

AT&T  
ANTENNA SCHEDULE  
(1C/2C/3C)  
JOB NUMBER: ME1266  
DRAWING NUMBER: A-5  
REV: 3

**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS. INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UNON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT. ZRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAD MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

**SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):**

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

**SPECIAL INSPECTION CHECKLIST**

BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS <sup>1</sup>
N/A	MATERIAL SPECIFICATIONS REPORT <sup>2</sup>
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS <sup>3</sup>
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS <sup>4</sup>
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup>
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

**NOTES:**

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL BOLTS PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C.D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 308.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

**NOTES:**

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

**HUDSON**  
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BILLERICA, MA 01862  
TEL: (978) 608-8400

**SITE NUMBER: ME1266**  
**SITE NAME: NEWN\_WEST WALDOBORO**  
ATC SITE ID: 371996  
640 ATLANTIC HIGHWAY  
WALDOBORO, ME 04572  
LINCOLN COUNTY

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

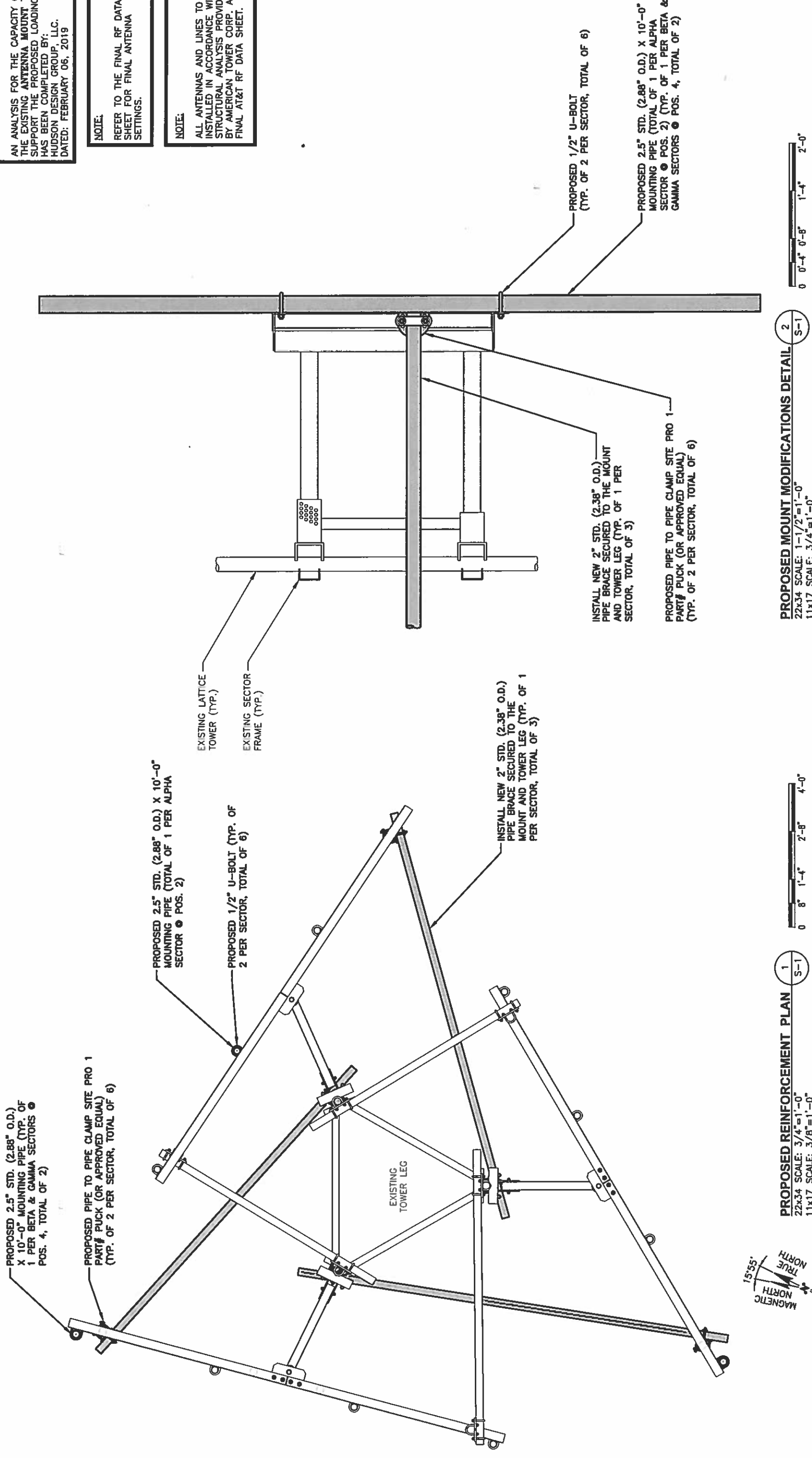
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2	04/05/19	ISSUED FOR REVIEW	VP	JF	DC
1	03/13/19	ISSUED FOR REVIEW	JH	JF	DC
DESIGNED BY: JF			DRAWN BY: JW		
SCALE: AS SHOWN			JOB NUMBER: ME1266		
			DRAWING NUMBER: SN-1		
			REV: 3		

**AT&T**  
**STRUCTURAL NOTES**  
(1C/2C/3C)

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: FEBRUARY 06, 2019

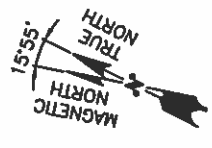
**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER CORP. AND FINAL AT&T RF DATA SHEET.



**PROPOSED MOUNT MODIFICATIONS DETAIL 2**  
22x34 SCALE: 1-1/2"=1'-0"  
11x17 SCALE: 3/4"=1'-0"

**PROPOSED REINFORCEMENT PLAN 1**  
22x34 SCALE: 3/4"=1'-0"  
11x17 SCALE: 3/8"=1'-0"



JOB NUMBER		ME1266
DRAWING NUMBER		S-1
REV		3

AT&T  
MOUNT MODIFICATION DESIGN  
(1C/2C/3C)

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1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC

SCALE: AS SHOWN  
DESIGNED BY: JF  
DRAWN BY: JW

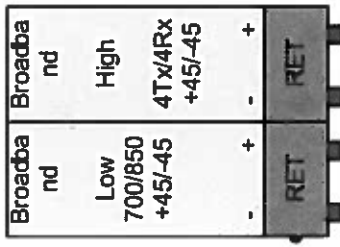
**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

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ATC SITE ID: 371996  
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WALDOBORO, ME 04572  
LINCOLN COUNTY

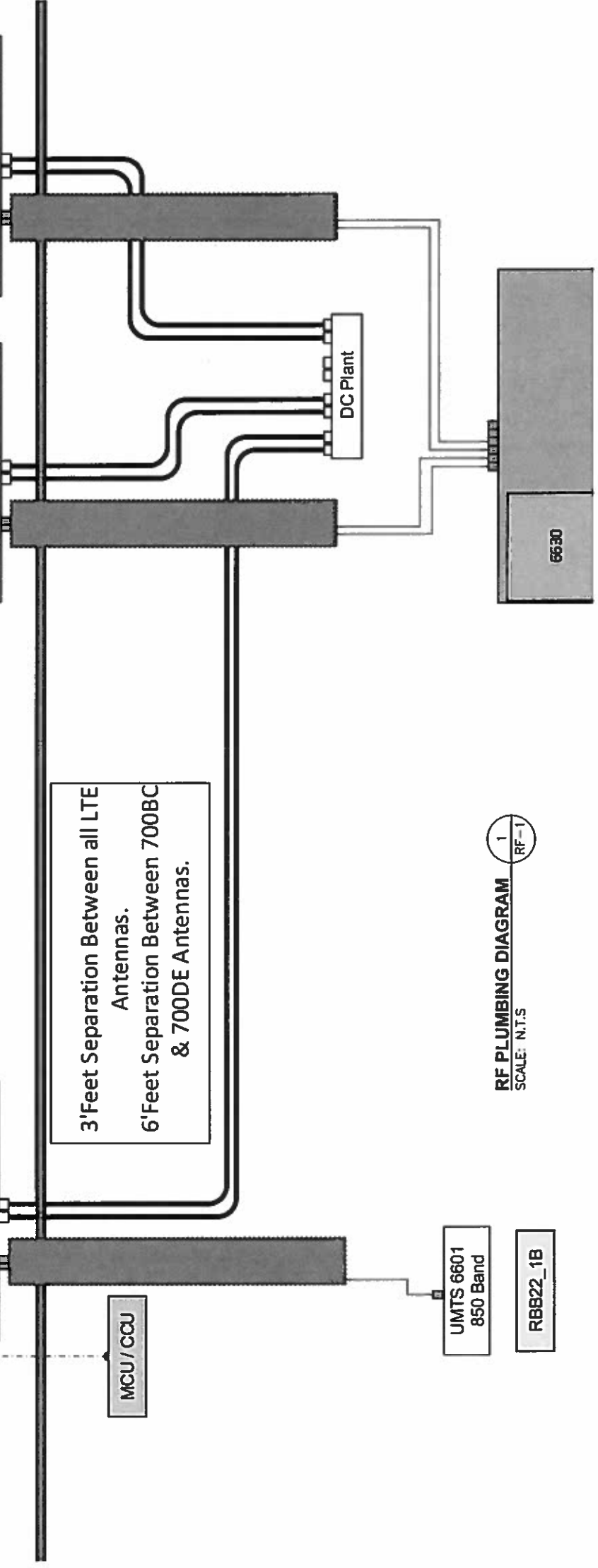
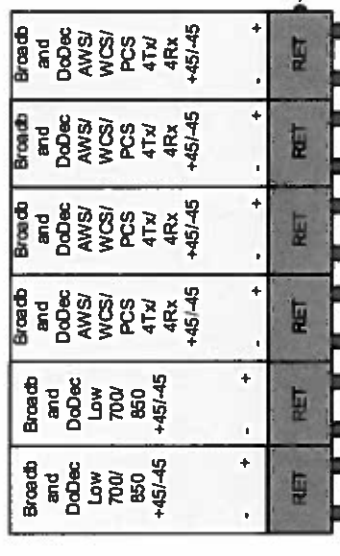
**EMPIRE telecom**  
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**HGD** HUDSON Design Group LLC  
45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5533  
FAX: (978) 334-5584

Antenna 1  
UMTS



Antenna 4  
LTE 700 B14 / AWS / 1900



RF PLUMBING DIAGRAM  
SCALE: N.T.S.

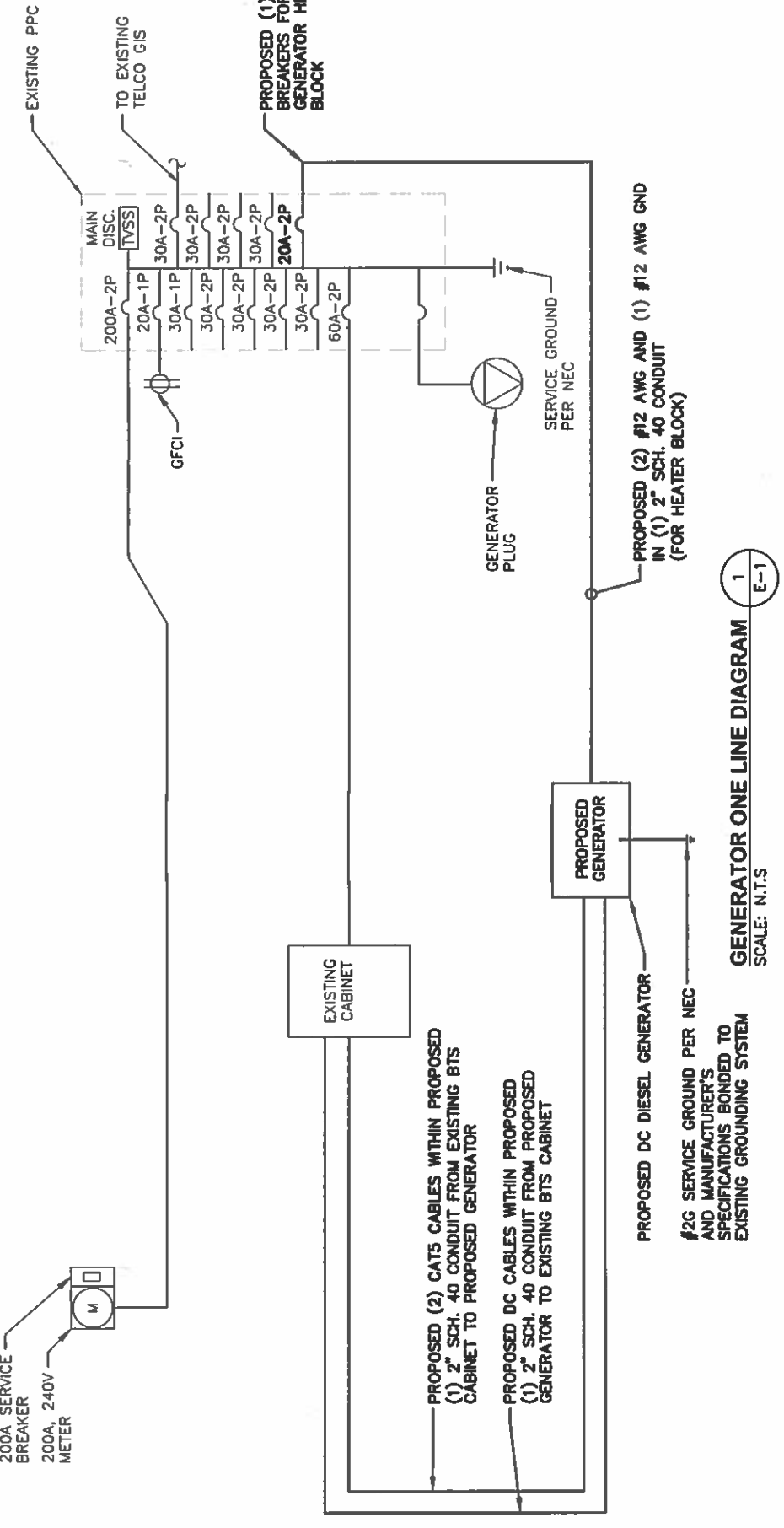
- NOTES:
1. CONTRACTOR TO CONFIRM ALL PARTS.
  2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.

NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

<p>45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 TEL: (978) 357-5533 FAX: (978) 334-5584</p>	<p>EMPIRE telecom 16 ESQUIRE ROAD BILLERICA, MA 01862 TEL: (978) 608-8400</p>	<p>SITE NUMBER: ME1266 SITE NAME: NEWN_WEST WALDOBORO ATC SITE ID: 371996 640 ATLANTIC HIGHWAY WALDOBORO, ME 04572 LINCOLN COUNTY</p>	<p>at&amp;t 550 COCHITUATE ROAD FRAMINGHAM, MA 01701</p>	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>ISSUED FOR REVIEW</th> <th>BY</th> <th>CHK</th> <th>APP'D</th> </tr> <tr> <td>3</td> <td>05/08/19</td> <td>ISSUED FOR REVIEW</td> <td>RP</td> <td>JF</td> <td>DC</td> </tr> <tr> <td>2</td> <td>04/05/19</td> <td>ISSUED FOR REVIEW</td> <td>VF</td> <td>JF</td> <td>DC</td> </tr> <tr> <td>1</td> <td>03/13/19</td> <td>ISSUED FOR REVIEW</td> <td>JW</td> <td>JF</td> <td>DC</td> </tr> </table> <p>SCALE: AS SHOWN DESIGNED BY: JF DRAWN BY: JW</p>	NO.	DATE	ISSUED FOR REVIEW	BY	CHK	APP'D	3	05/08/19	ISSUED FOR REVIEW	RP	JF	DC	2	04/05/19	ISSUED FOR REVIEW	VF	JF	DC	1	03/13/19	ISSUED FOR REVIEW	JW	JF	DC	<p>AT&amp;T RF PLUMBING DIAGRAM (1C/2C/3C)</p> <table border="1"> <tr> <td>JOB NUMBER</td> <td>ME1266</td> </tr> <tr> <td>DRAWING NUMBER</td> <td>RF-1</td> </tr> <tr> <td>REV</td> <td>3</td> </tr> </table>	JOB NUMBER	ME1266	DRAWING NUMBER	RF-1	REV	3
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**ELECTRICAL NOTES**

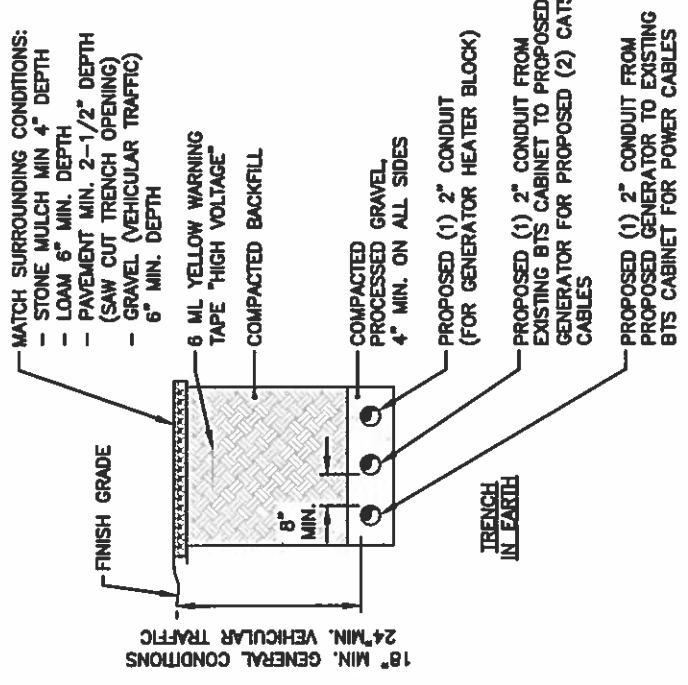
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS. RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION. RUN BETWEEN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL METER BANK AND PROPOSED CELL SITE POWER PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROPOSED CELL SITE TELCO CABINET AND BITS CABINET AS INDICATED ON DRAWING A-3. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREEN/LEE CONDUIT MEASURING TAPE AT EACH END.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.



NOTE: PROPOSED AT&T DC GENERATOR TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

**LEGEND**

A	AMPERE
V	VOLT
KWH	KILOWATT - HOUR
C	CONDUIT
GRC	GALVANIZED RIGID CONDUIT
BGR	BURIED GROUND RING
BTCW	BARE TINNED SOLID COPPER WIRE
G	GROUND
⊕	GROUND
⊖	MASTER GROUND BAR
○	MECHANICAL CONNECTION
●	CADWELD CONNECTION
□	EQUIPMENT GROUND BAR
—	GROUND COPPER WIRE, SIZE AS NOTED
—	EXPOSED WIRING
—	#6C AWG INSULATED STRANDED
—	COAXIAL CABLE/HYBRID CABLE
—	5/8"x8' COPPER CLAD STAINLESS STEEL GROUND ROD
—	GROUND ROD WITH TEST WELL
—	EXOTHERMIC (CAD WELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
—	POWER PROTECTION CABINET
—	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL



SPECIAL WORK NOTE: EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. WHERE DIRECTED OR REQUIRED, HAND-EXCAVATE PROPOSED UTILITY TRENCHING

**BURIED CONDUIT DETAIL (AS REQUIRED)**  
SCALE: N.T.S.

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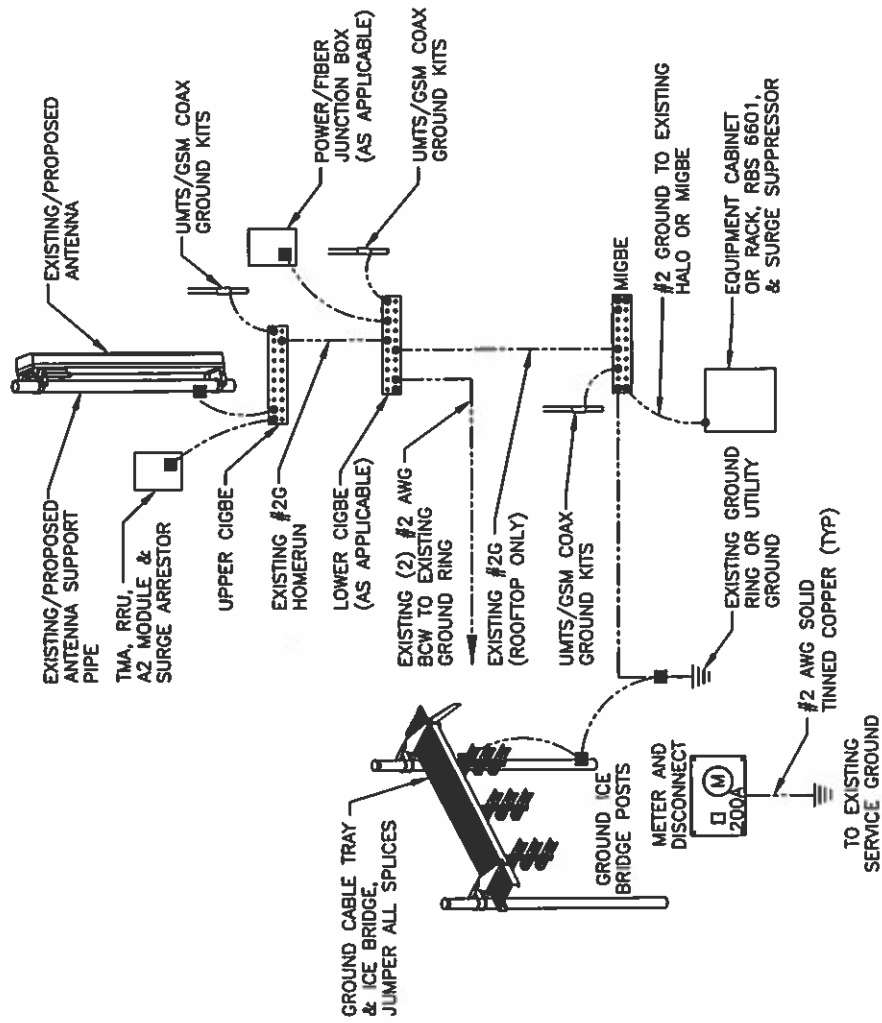
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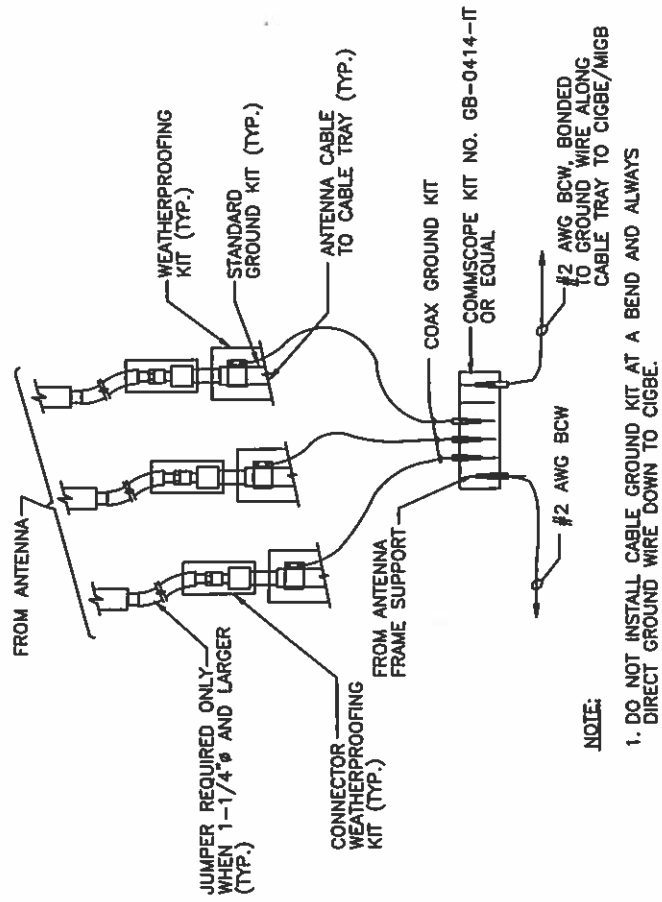
**AT&T**

**GENERATOR ONE LINE DIAGRAM**  
(1C/2C/3C)

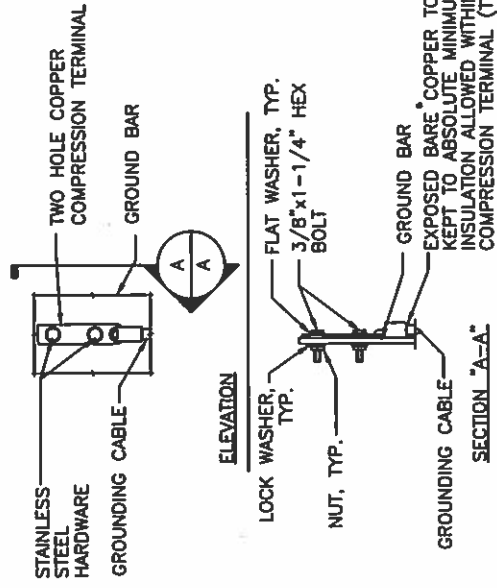
JOB NUMBER: ME1266  
DRAWING NUMBER: E-1  
REV: 3



**GROUNDING RISER DIAGRAM** 1  
SCALE: N.T.S



**GROUND WIRE TO GROUND BAR CONNECTION DETAIL** 2  
SCALE: N.T.S



**NOTE:**  
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.  
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.  
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

**TYPICAL GROUND BAR CONNECTION DETAIL** 3  
SCALE: N.T.S

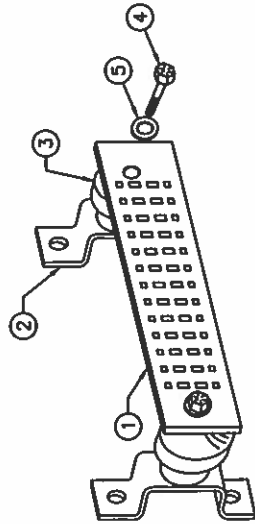
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**SECTION "P" - SURGE PRODUCERS**

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.

**SECTION "A" - SURGE ABSORBERS**

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)



**GROUND BAR - DETAIL** 4  
SCALE: N.T.S

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SCALE: AS SHOWN  
DRAWN BY: JW

**AT&T**

**GROUNDING DETAILS**  
(1C/2C/3C)

JOB NUMBER	ME1266	DRAWING NUMBER	G-1
REV			3