



Matt Burke

16 Chestnut Street, Suite 220
Foxboro, MA 02035
Tel (508) 930-0974
Fax (774) 215-5423

Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification - Emergency Backup Generator
393 Jackson Hill Road, Middlefield, CT 06455 (FA# 10071119)**

Dear Ms. Bachman:

American Telephone and Telegraph Company ("AT&T") currently maintains a wireless telecommunications facility at the above referenced address. AT&T's facility consists of antennas at the 98' level of an existing 146' tower and equipment cabinets in a 7' x 16' lease area. The tower and AT&T's cabinets are located within an existing, fenced-in compound area. AT&T does not currently maintain a generator at this cell site.

In an effort to further enhance multiple tenants' network reliability, AT&T intends to modify its facility by installing a new diesel-fueled generator outside in a designated 4' x 8' ground space. The generator incorporates a built-in fuel tank as part of the unit. The diesel fuel tanks are double walled for added safety and will be filled by a licensed fuel filling company. The proposed modification will remain within the existing, fenced-in compound. The new generator and tank will be surrounded by a security fence and gate. (See Facility Compound Plan attached).

Please accept this letter as notification pursuant to R.C.S.A Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the Town of Middlefield, who also owns the land in question.

AT&T's Proposed Wireless Modifications Constitute An "Exempt Modification"

The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for in R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 1) The proposed modification will not result in an increase in the height of the existing tower.

- 2) The generator and attached fuel tank will remain entirely within the limits of the leased area. The modifications therefore, will not require the extension of the boundary.
- 3) The proposed modification does not increase the noise levels at the boundary by six (6) decibels or more under normal conditions. Proposed modification is only used during emergency power failure.
- 4) The installation of a new generator and attached fuel tank will not change, in any way, radio frequency (RF) emissions at the facility.
- 5) The facility has received all municipal zoning approvals and building permits. (Regs., Conn. State Agencies Section 16-50j-72))

For all the foregoing reasons, American Telephone and Telegraph Company respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A Section 16-50j-72(b)(2)

Respectfully submitted,

Matt Burke (508)930-0974

On behalf of AT&T

c/o Tower Resource Management, Inc.
16 Chestnut Street, Suite 220
Foxboro, MA 02035

cc: **Town of Middlefield, CT**

Exhibit 1

Site Plan



BACKUP POWER PROJECT

SITE IDENTIFICATION:

SITE NUMBER: 10071119

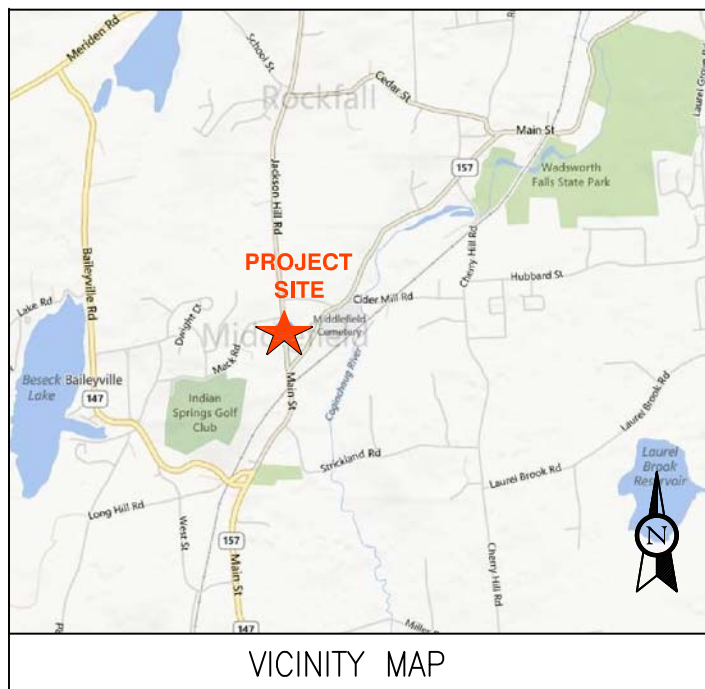
SITE NAME: MIDDLEFIELD CENTRAL

SITE ADDRESS: 393 JACKSON HILL ROAD
MIDDLEFIELD, CT 06455

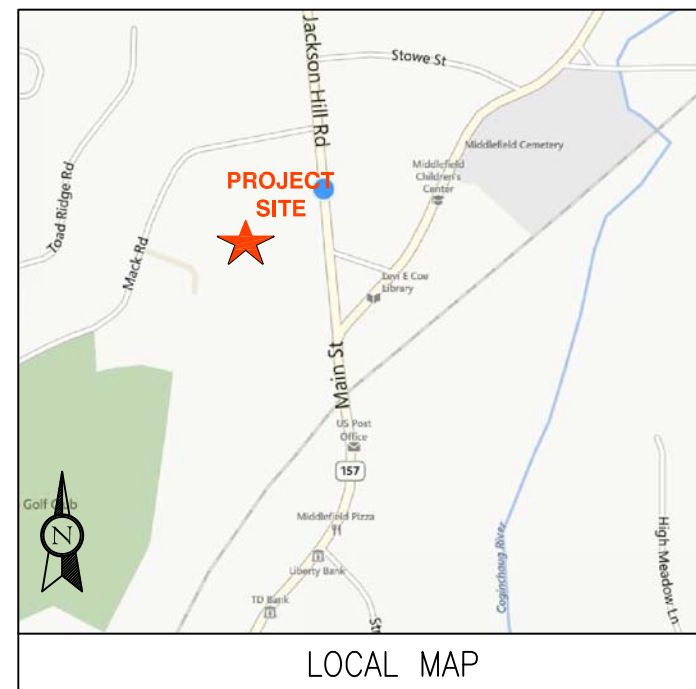
PROJECT DESCRIPTION:

THE PROPOSED PROJECT INCLUDES PLACING A 50 KW GENERATOR
IN AN EXISTING CELLULAR TOWER COMPOUND.

CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.



VICINITY MAP



LOCAL MAP



Know what's below.
Call before you dig.

THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

| PROJECT TEAM | PROJECT SUMMARY | PROJECT NOTES | SHEET INDEX | | | | |
|---|---|---|----------------|---------------------|-------------|--------------|------------|
| ENGINEER ADVANCED ENGINEERING GROUP, P.C. 500 NORTH BROADWAY EAST PROVIDENCE, RI 02914 TEL: 401-354-2403 CUSTOMER REPRESENTATIVE: SABRE INDUSTRIES PEGGY POOR MARKET LEAD - AT&T NE GENERATOR PROGRAM 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1 ALPHARETTA, GA 30004 CELL 770-990-0137 LANDLORD: SBA 2012 TC ASSETS, LLC 5900 BROKEN SOUND PARKWAY, 2ND FLOOR BOCA RATON, FL 33487 UTILITIES: POWER COMPANY: NORTHEAST UTILITIES (NU) P.O. BOX 270 HARTFORD, CT 06141-0270 PHONE: 1-800-286-5000 | GEOGRAPHIC COORDINATES: LATITUDE: 41° 31' 03" N LONGITUDE: 72° 42' 51" W CODE BLOCK: BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE | 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL AS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | SHT NO: | DESCRIPTION: | REV: | DATE: | BY: |
| | | T-1 TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION A-1 COMPOUND PLAN A-2 CONCRETE PAD DETAILS E-1 WIRING DIAGRAM & SIZING CHARTS E-2 ELECTRICAL & ATS MOUNTING DETAILS G-1 GROUNDING DETAILS | | | | | |
| | | PROJECT LOCATION DIRECTIONS | | | | | |
| | | DEPART RT-30 W / COCHITUATE RD TOWARD BURR ST TURN BACK ON RT-30 E / COCHITUATE RD TAKE RAMP RIGHT FOR I-90 WEST TOWARD WORCESTER / SPRINGFIELD AT EXIT 9, TAKE RAMP RIGHT FOR I-84 TOWARD NEW YORK CITY / HARTFORD STOP FOR TOLL BOOTH AT EXIT 57, TAKE RAMP LEFT FOR CT-15 SOUTH TOWARD CHARTER OAK BR / N.Y. CITY KEEP STRAIGHT ONTO US-5 S / CT-15 S AT EXIT 86, TAKE RAMP RIGHT FOR I-91 SOUTH TOWARD NEW HAVEN / N.Y. CITY AT EXIT 20, TAKE RAMP RIGHT FOR MIDDLE STREET TOWARD COUNTRY CLUB RD BEAR LEFT ONTO MIDDLE ST TURN LEFT ONTO COUNTRY CLUB RD TURN RIGHT ONTO HIGBY RD ROAD NAME CHANGES TO JACKSON HILL RD ARRIVE AT 393 JACKSON HILL RD, MIDDLEFIELD, CT 06455 | | | | | |

ADVANCED ENGINEERING GROUP, P.C.
 Civil Engineering - Site Development
 Surveying - Telecommunications
 500 NORTH BROADWAY
 EAST PROVIDENCE, RI 02914
 PH: 401-354-2403 FAX: 401-633-6354

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 Convergent Network Solutions
 TOWER RESOURCE MANAGEMENT
 16 CHESTNUT STREET, SUITE 220
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 550 COCHITUATE ROAD, SUITE 13 & 14
 FRAMINGHAM, MA 01701-4681

Sabre Industries
 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1
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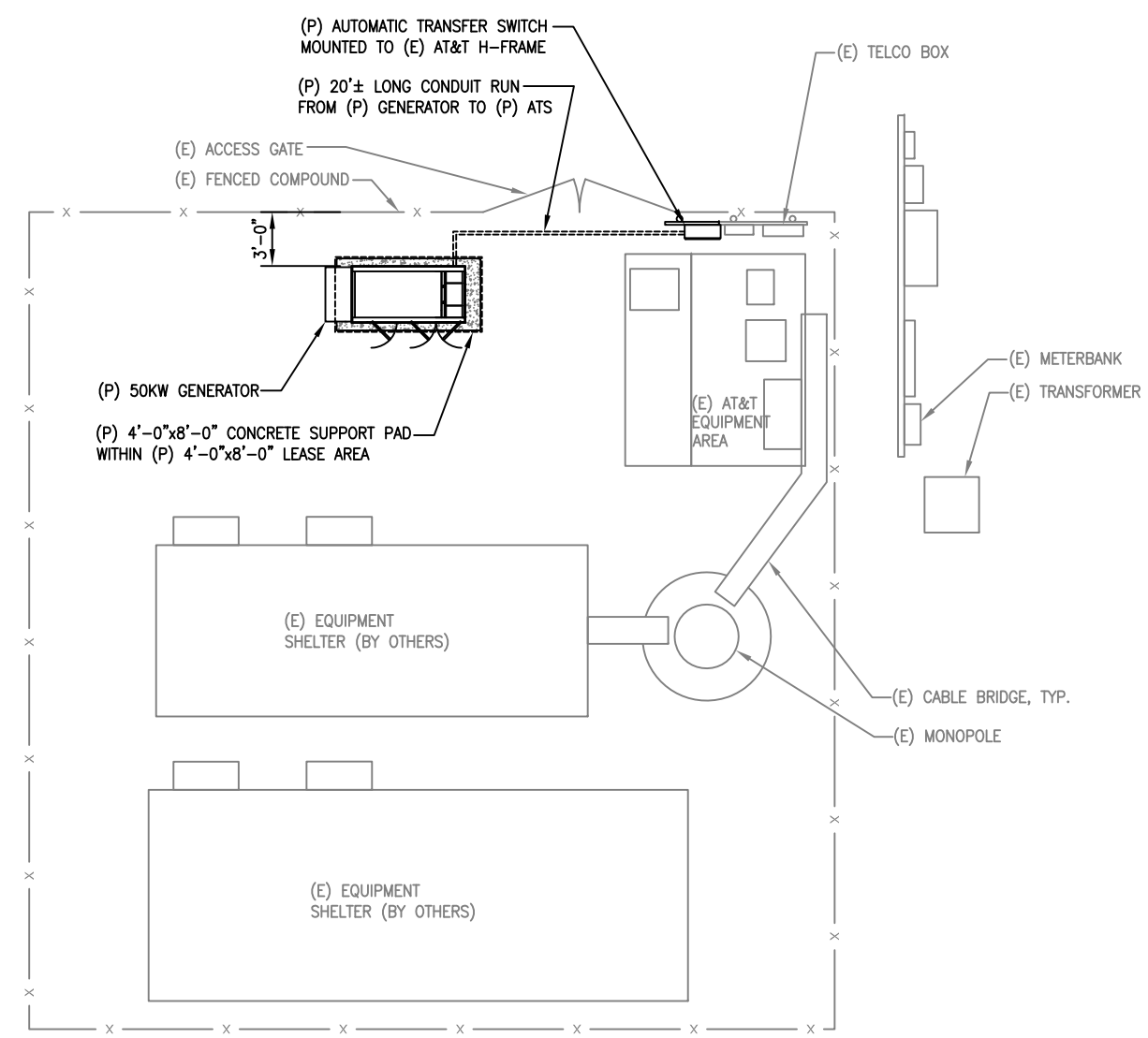
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STAMP HERE:

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|---|----------|
| DRAWN BY: | JTG |
| CHECKED BY: | SNA |
| DATE DRAWN: | 11-13-13 |
| JOB NO: | 10071119 |
| SHEET TITLE: TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION | |
| SHEET NUMBER: | REV. # |
| T-1 | 0 |

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NOTE:
A SITE VISIT/SURVEY WAS NOT CONDUCTED BY ADVANCED ENGINEERING GROUP, P.C. SITE INFORMATION AND PLANS ARE BASED UPON INFORMATION PROVIDED BY CLIENT



1 **COMPOUND PLAN**
SCALE: 1" = 10'-0"
0 5' 10' 20'

ADVANCED ENGINEERING GROUP, P.C.
Civil Engineering - Site Development
Surveying - Telecommunications
500 NORTH BROADWAY
EAST PROVIDENCE, RI 02914
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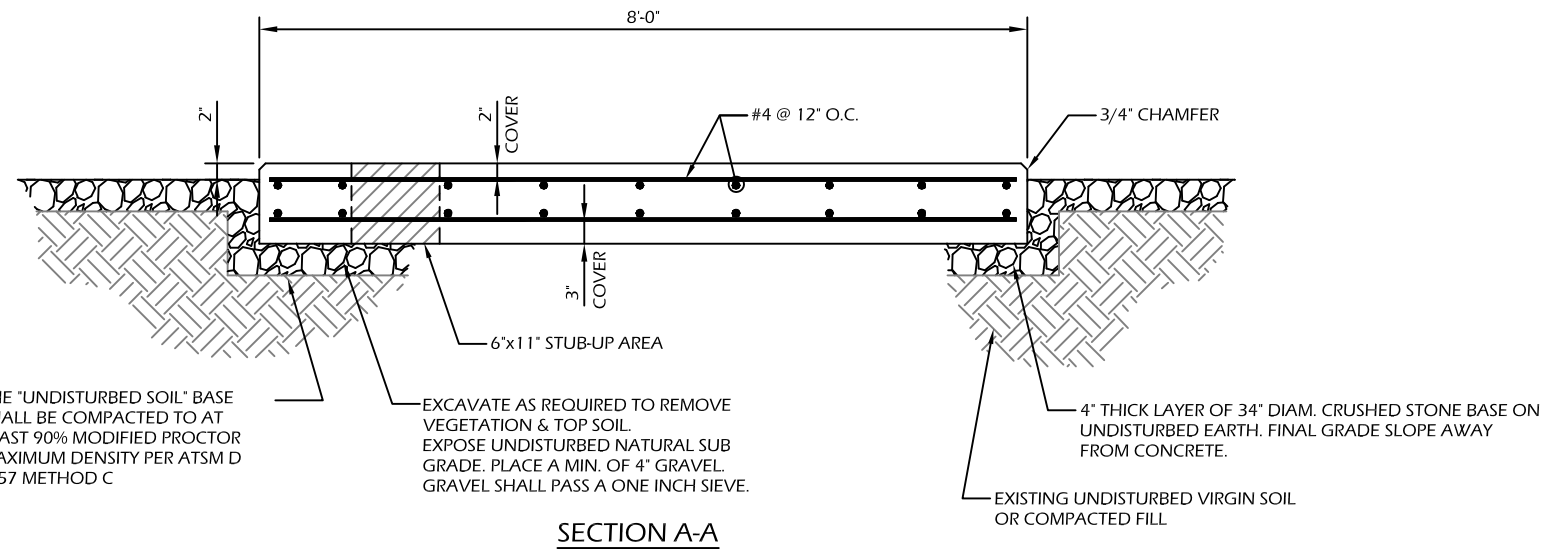
at&t
550 COCHITUATE ROAD, SUITE 13 & 14
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Sabre Industries
13010 MORRIS ROAD, 6TH FLOOR, BLDG 1
ALPHARETTA, GA 30004

SITE NUMBER:
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SITE NAME:
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SITE ADDRESS:
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| SHEET TITLE: COMPOUND PLAN | |
| SHEET NUMBER: A-1 | REV. # 0 |

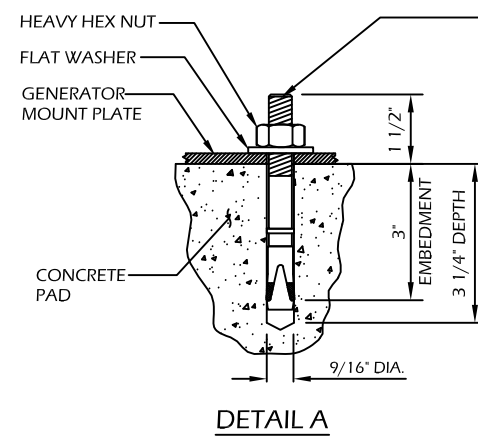


THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ATSM D 1557 METHOD C

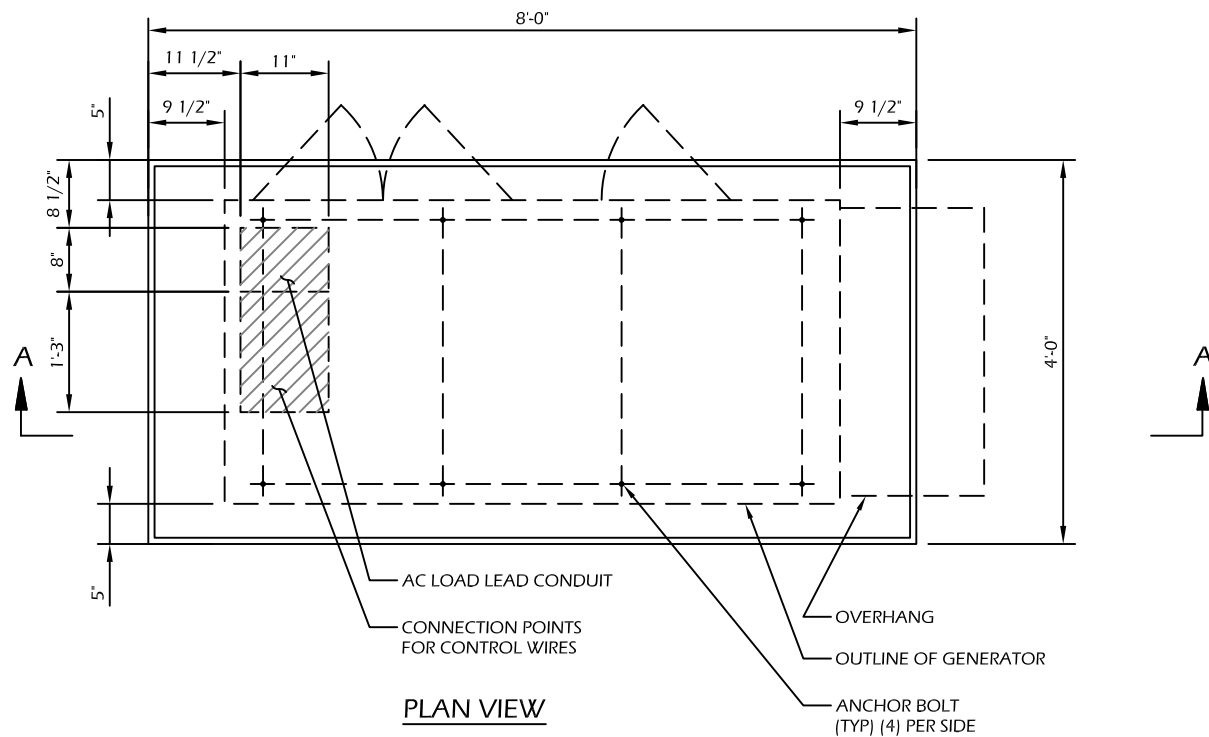
EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOP SOIL. EXPOSE UNDISTURBED NATURAL SUB GRADE. PLACE A MIN. OF 4" GRAVEL. GRAVEL SHALL PASS A ONE INCH SIEVE.

4" THICK LAYER OF 3/4" DIAM. CRUSHED STONE BASE ON UNDISTURBED EARTH. FINAL GRADE SLOPE AWAY FROM CONCRETE.

EXISTING UNDISTURBED VIRGIN SOIL OR COMPACTED FILL



"HILTI" KWIK BOLT 3 EXPANSION ANCHOR
NOTE:
1. BOLTS CAN BE INSTALLED 2 DAYS AFTER POURING CONCRETE PROVIDED THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION.
2. APPLY "HILTI" HIT-RE 500-SD EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD-UP.



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CONCRETE PAD CONSTRUCTION NOTES

1. ALL REBAR (HORIZONTAL & VERTICAL) SHALL BE SECURELY WIRE TIED TO PREVENT DISPLACEMENT DURING POURING OF CONCRETE.
2. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
3. REINFORCED CONCRETE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI STANDARDS 318.
4. MINIMUM CONCRETE COVER OVER REBAR IS 2 1/2".
5. REINFORCING MATERIAL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A615-85.

CONCRETE PAD AND EMBEDMENT TOLERANCES

1. CONCRETE DIMENSIONS: PLUS OR MINUS 1/4".
2. REINFORCING STEEL PLACEMENT: PLUS OR MINUS 1/4" INCLUDING CONCRETE COVER.

NOTES

1. FOUNDATION WAS DESIGNED BY ASSUMING ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSI. THE SOIL BEARING CAPACITY FOR EACH SITE MUST BE VERIFIED USING THE SITE SPECIFIC GEOTECH REPORT. IF SHALLOW GROUNDWATER (≤ 3 FT.) WAS REPORTED, A FURTHER REVIEW OF THE DESIGN OR SPECIAL DESIGN MAY BE REQUIRED.
2. THE SOIL UNDERNEATH THE CONCRETE PAD MUST BE FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES, AND SHOULD BE COMPACTED AND LEVELED BEFORE PLACING THE FOUNDATION.
3. CONCRETE SLUMPS: 1"~3".
4. CONCRETE VOLUME: 2.4 CUBIC YARDS.

DESIGN

1. MAXIMUM DESIGN BASIC WIND SPEED (3-SECOND GUST): 155 MPH FOR GENERATOR MODELS SD050 AND SD080.

PRE-CAST GENERATOR PAD

ADVANCED ENGINEERING GROUP, P.C.
Civil Engineering - Site Development
Surveying - Telecommunications
500 NORTH BROADWAY
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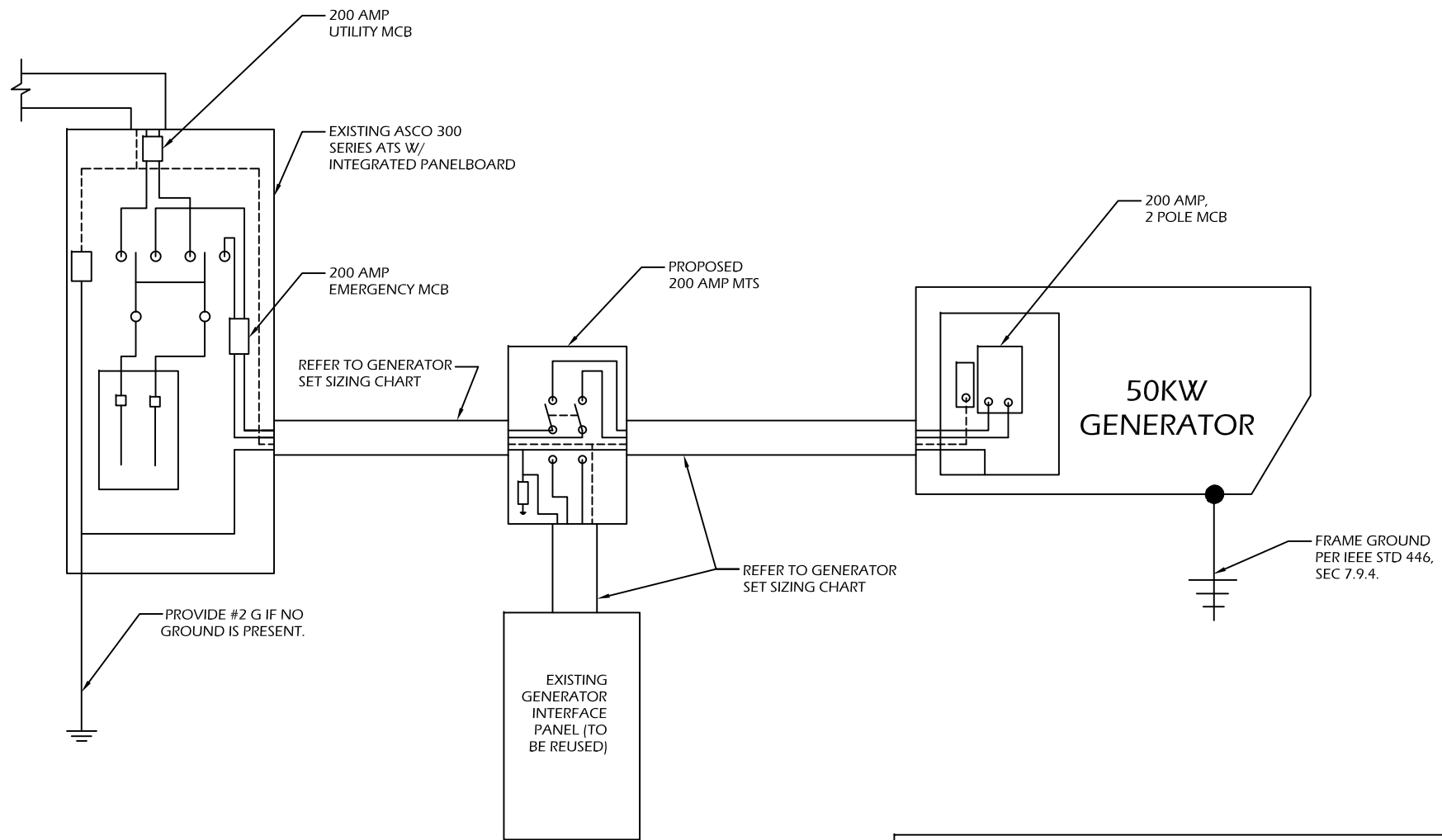
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13010 MORRIS ROAD, 6TH FLOOR, BLDG 1
ALPHARETTA, GA 30004

SITE NUMBER:
10071119
SITE NAME:
MIDDLEFIELD CENTRAL
SITE ADDRESS:
393 JACKSON HILL ROAD
MIDDLEFIELD, CT 06455

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| SHEET TITLE: CONCRETE PAD DETAILS | |
| SHEET NUMBER: A-2 | REV. # 0 |



1 **SINGLE CARRIER WIRING DIAGRAM**
SCALE: NOT TO SCALE

- NOTES:
1. ALL UNDERGROUND CABLE TO BE BURIED AT 36" MIN. SHIELD TAPED AT 12" AND STUBBED OUT OF GROUND IN SCH 40 PVC CONDUIT.
 2. LOW VOLTAGE CONTROL WIRE PROVIDED BY MONITORING PROVIDER IN SEPARATE 1/2" CONDUIT FROM ATS TO GENERATOR.
 3. BTS SITES: THE TENANT CONTRACTOR TO COMPLETE CUSTOMER ELECTRICAL CONDUIT TO CUSTOMER METER PER STANDARD COLLOCATION INSTALL.
 4. TENANT CONTRACTOR HAS NOTHING TO INSTALL OR COMPLETE FOR ATC SHARED GEN DURING CUSTOMER COLLOCATION ON ATC TOWER.
 5. ATC SHARED GEN INSTALL IS COMPLETED AFTER CUSTOMER TOWER COLLOCATION IS COMPLETE WITH LOAD ON CUSTOMER METER.
 6. ALL CONDUCTORS ARE SIZED FOR COPPER, BUT ALUMINUM CONDUCTORS ARE ALLOWED FOR FEEDERS PROVIDED THEY ARE UPSIZED PER NEC TABLE 310.16.
 7. ALL ELECTRICAL WORK SHALL BE PER THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL APPLICABLE LOCAL CODES.
 8. MAINTAIN 36" CLEAR WORKSPACE IN FRONT OF METER, TRANSFER SWITCH, GENERATOR, PANELS, ETC.
 9. 800A PANEL HAS A COMMON NEUTRAL BUS. NEUTRALS BACK TO EACH CARRIER METER ARE SIZED ACCORDING TO THE DISTRIBUTION PANEL BRANCH BREAKER RATING. NEUTRAL IS BONDED AT THE PRIMARY SERVICE MAIN BONDING JUMPER ONLY.
 10. GENERATOR CONTROLS AND SENSORS SHALL HAVE GFCI SENSING CAPABILITY PER NEC 700-6(D).

CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.

| FEEDER SIZING CHART FOR GENERATOR | | | | | |
|-----------------------------------|-----------------|------------------------|---------------------------------------|--|--|
| GEN SET SIZE | VOLTS - PHASE | PRIME RATING KW - AMPS | SIZE OF INLINE BREAKER (AT GENERATOR) | MAIN BREAKER SIZE SERVING ANCHOR TENANT: | FEEDER SIZES FROM GEN SET BREAKER TO DISTRIBUTION PANEL / ATS. |
| 50KW | 120/240V - 1-PH | 48KW - 200A | 200A | 200A 2-P C/B INTEGRAL TO GEN SET | 3#3/0, 1#6G, IN 2" C |

- NOTES:
1. SERVICE VOLTAGE FOR EACH CARRIER IS 120/240 1-PHASE, AND SERVICE SIZES ARE TYPICAL 200A PER CARRIER.
 2. DISTRIBUTION PANEL IS 800A, 120/240V 1-PHASE, WITH 200A C/B FOR THE LISTED CARRIER OUTPUT. PANEL HAS (3) 200A BREAKER SPACES FOR FUTURE CARRIERS.
 3. AUTOMATIC TRANSFER SWITCH (ATS) ARE 200A 2-POLES, 120/240V 1-PHASE WITH SOLID NEUTRAL PER CARRIER.
 4. ALL ELECTRICAL EQUIPMENT IS NEMA 3R RATED.
 5. THE GENERATOR ELECTRICAL LOADS ARE ADEQUATE FOR THE CONNECTED LOADS.
 6. ALL EQUIPMENT FURNISHED SHALL BE PROVIDED WITH EQUIPMENT RATED TO WITHSTAND FAULT CURRENT AVAILABLE AT PROJECT SITE.
 7. ALL WIRE AND PANEL BUSSING SHALL BE COPPER UNLESS ALLOWED ELSEWHERE IN THIS DOCUMENT SET, WIRE SIZES ARE BASED ON COPPER.
 8. A NEW SET OF PLANS WILL BE PROVIDED AND SUBMITTED FOR ADDITIONAL CARRIERS.
 9. ALL WORK SHALL CONFORM WITH THE CURRENT VERSION OF THE NEC AND ALL OTHER APPLICABLE CODES.
 10. FIRST OVER-CURRENT PROTECTION DEVICE IS INTEGRAL TO GENERATOR. FEEDER SIZES INDICATED IN TABLE ABOVE ARE DOWNSTREAM OF THE FIRST OVER-CURRENT PROTECTION DEVICE.
 11. INLINE BREAKER AT GENERATOR IS FACTORY INSTALLED, AND IS THE MANUFACTURER'S RECOMMENDED SIZE.

2 **GENERATOR SET SIZING CHARTS**

ADVANCED ENGINEERING GROUP, P.C.
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500 NORTH BROADWAY
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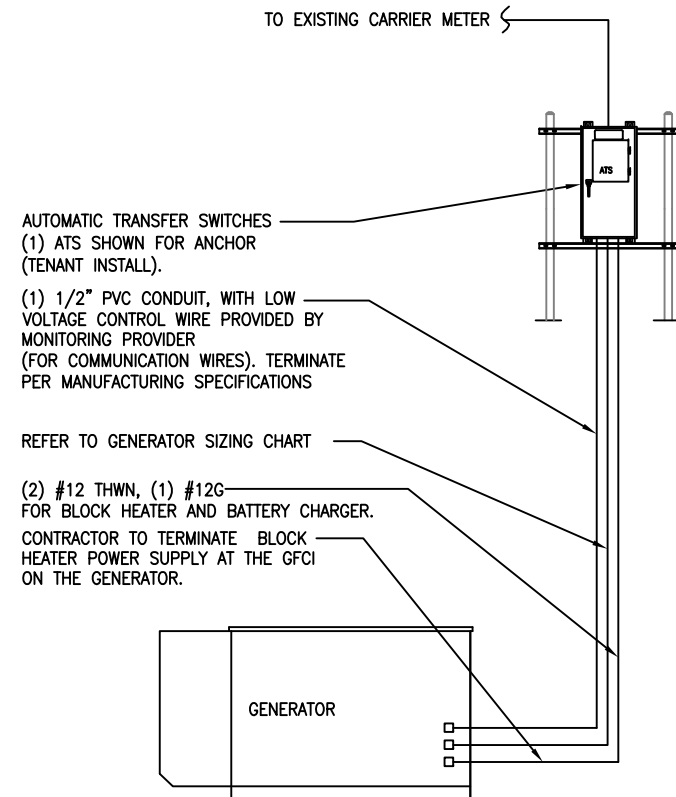
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| SHEET TITLE: WIRING DIAGRAM & SIZING CHARTS | |
| SHEET NUMBER: E-1 | REV. # 0 |

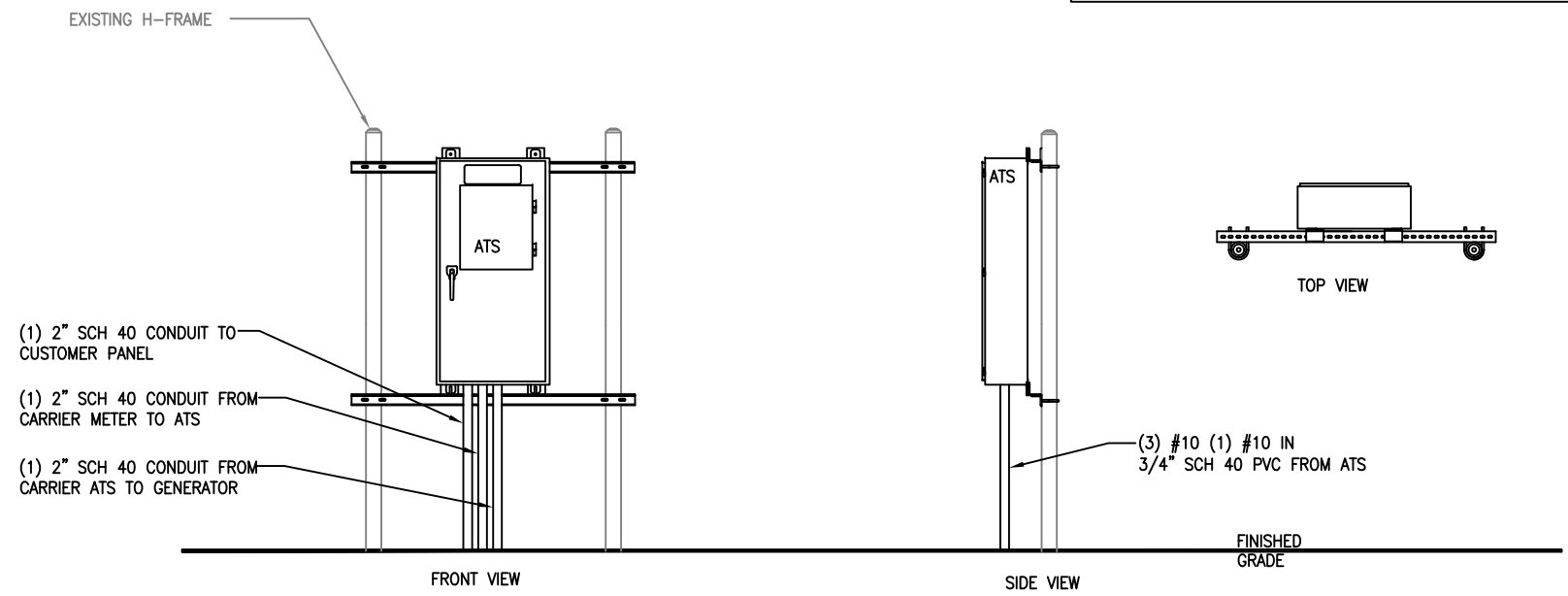
NOTE: UTILITY POWER FEEDS SHALL BE CONNECTED TO THE TRANSFER SWITCH FROM THE LOAD SIDE OF THE EXISTING SERVICE DISCONNECT. NO MODIFICATIONS SHALL BE MADE ON THE LINE SIDE OF THE EXISTING SERVICE DISCONNECT.

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DISCONNECT POWER FEED FROM EXISTING METER TO EXISTING SHELTER. ROUTE NEW FEEDERS (SIZED BELOW) FROM METER TO NEW TRANSFER SWITCH AND BACK. RECONNECT NEW RETURN FEED FROM TRANSFER SWITCH TO SUPPLY POWER (UTILITY AND BACK-UP POWER) TO EXISTING SHELTER.

1 METER CONFIGURATION



2 H-FRAME LAYOUT
SCALE: NOT TO SCALE

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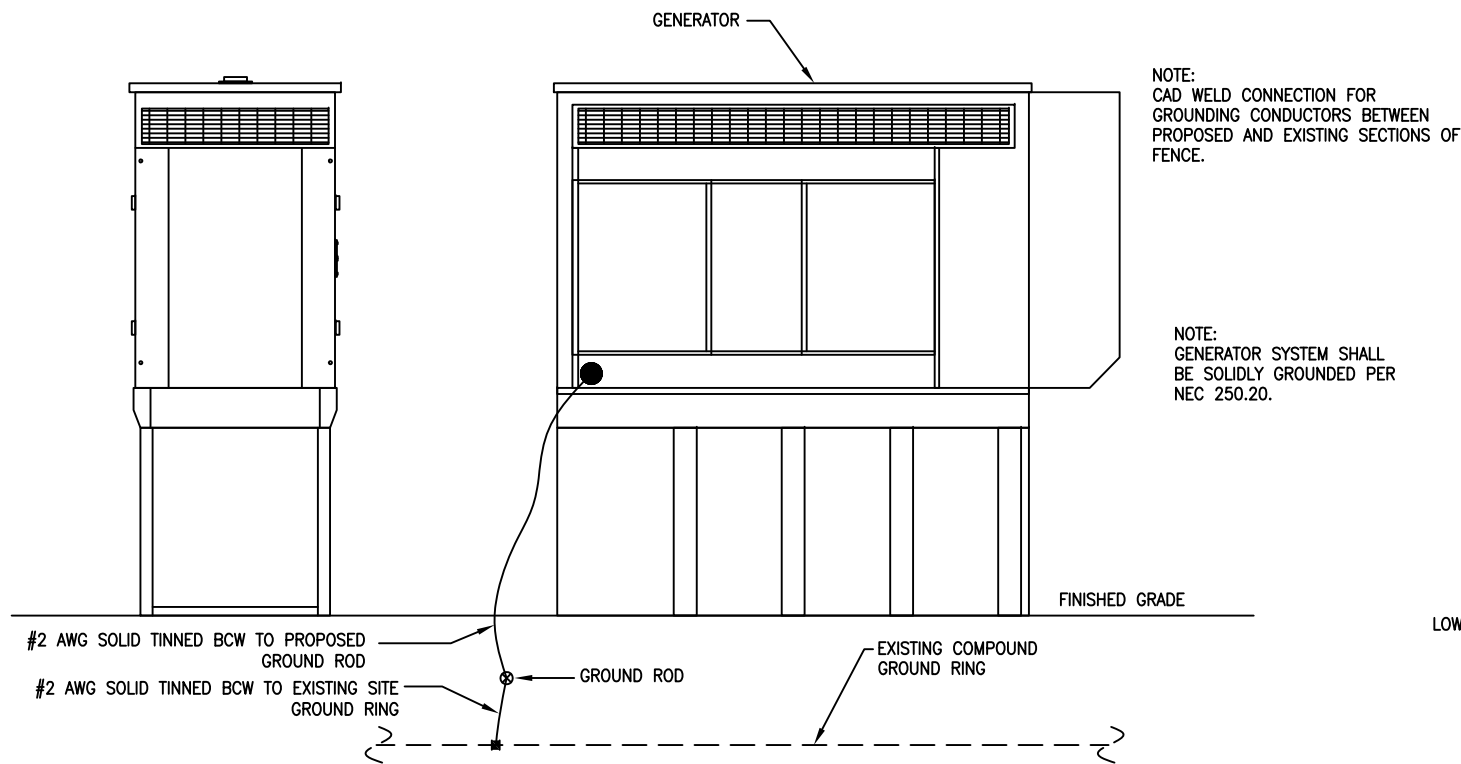
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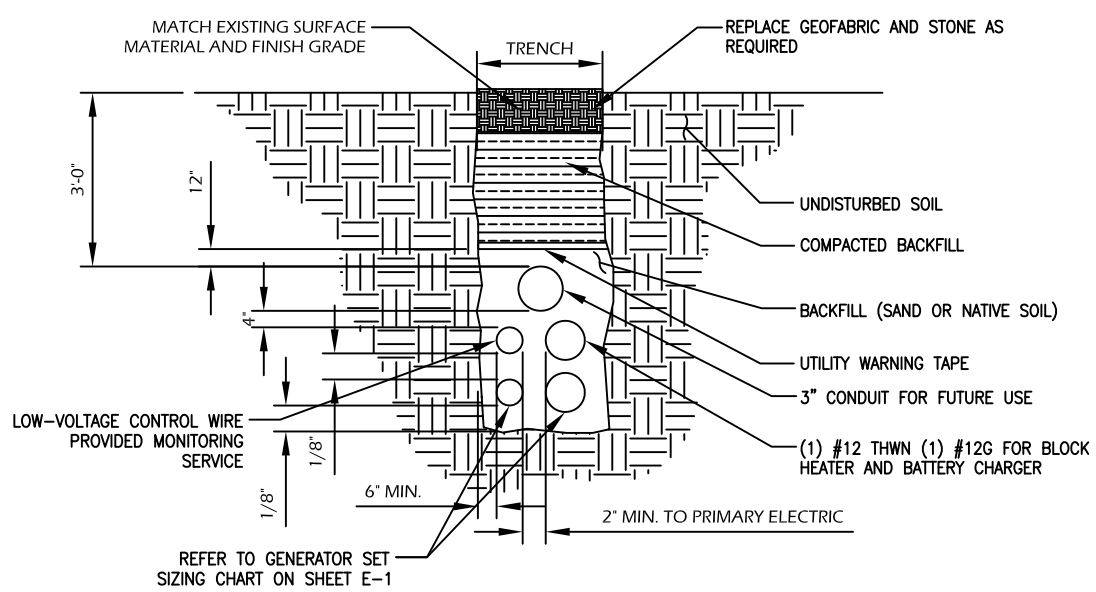
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| STAMP HERE: | |
| DRAWN BY: | JTG |
| CHECKED BY: | SNA |
| DATE DRAWN: | 11-13-13 |
| JOB NO: | 10071119 |
| SHEET TITLE: ELECTRICAL & ATC MOUNTING DETAILS | |
| SHEET NUMBER: | REV. # |
| E-2 | 0 |



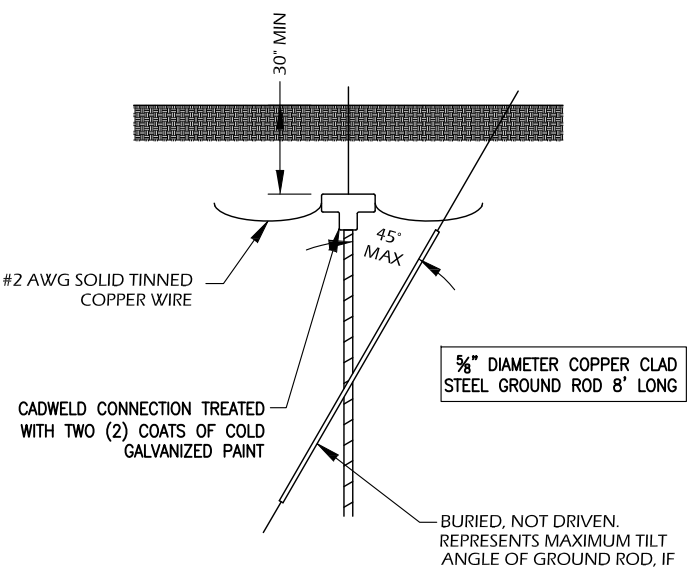
1 GENERATOR ELEVATION

CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.

- NOTES:
- CONTRACTOR TO HAND DIG ALL NEW TRENCHES INSIDE COMPOUND.
 - SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

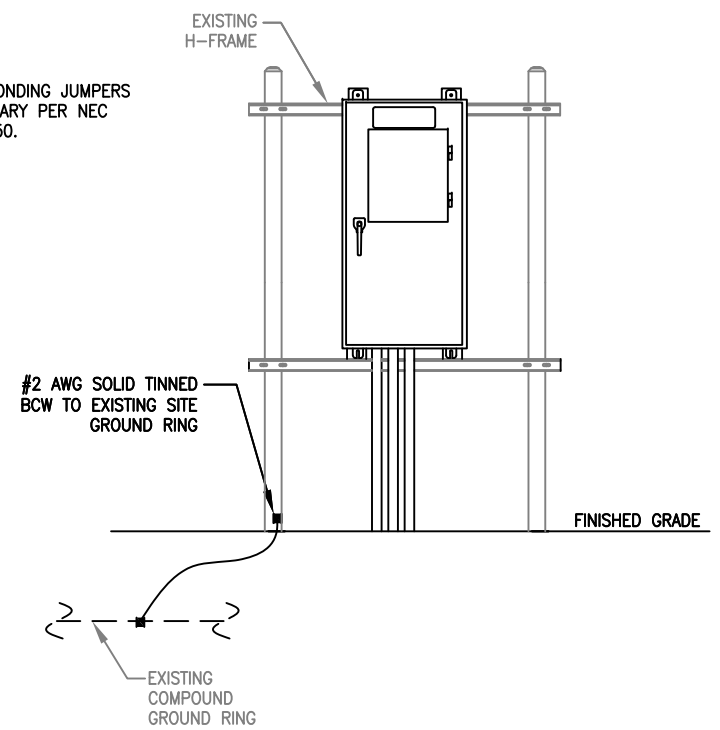


2 TRENCH DETAIL
SCALE: NOT TO SCALE

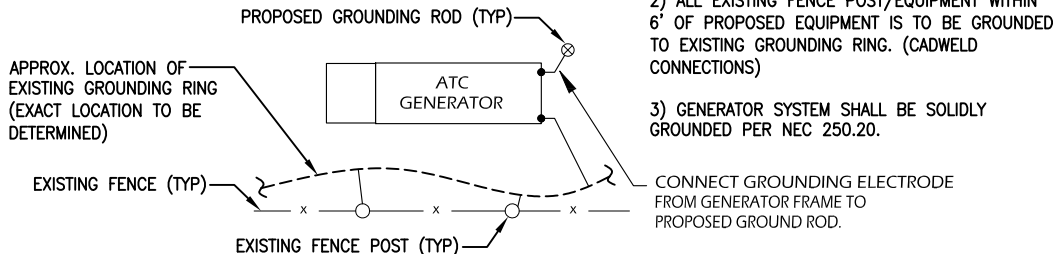


4 GROUND ROD DETAIL

NOTE: PROVIDE BONDING JUMPERS AS NECESSARY PER NEC SECTION 250.



3 H-FRAME ELEVATION



5 GENERATOR GROUND RING DETAIL

- NOTES:
- GENERATOR TO BE CONNECTED TO EXISTING GROUNDING RING (MIN 1 LOCATION).
 - ALL EXISTING FENCE POST/EQUIPMENT WITHIN 6' OF PROPOSED EQUIPMENT IS TO BE GROUND TO EXISTING GROUNDING RING. (CADWELD CONNECTIONS)
 - GENERATOR SYSTEM SHALL BE SOLIDLY GROUND PER NEC 250.20.

- NOTES:
- ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE NOT POSSIBLE.
 - ELECTRICIAN SHALL VERIFY THAT GROUNDING IS INSTALLED SO THAT NO CIRCULATING CURRENTS ARE POSSIBLE BY FOLLOWING DETAIL 3 SO GROUNDING IS CONNECTED TO EXISTING TOWER GROUND FIELD.
 - ALL LIGHTNING GROUNDING SHALL BE FREE OF KINKS AND SHALL HAVE LONG RADIUS BENDS (MINIMUM 8").
 - ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
 - USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING (2) FENCE POSTS AND CADWELD FROM GENERATOR GROUND RING

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SITE NUMBER:
10071119

SITE NAME:
MIDDLEFIELD CENTRAL

SITE ADDRESS:
393 JACKSON HILL ROAD
MIDDLEFIELD, CT 06455

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