



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
491 South Quaker Lane, West Hartford, CT 06110 (FA# 10071355)**

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 110' level of an existing 120' tower and a 12' x 20' equipment shelter. The tower and AT&T's shelter are located within an existing, fenced-in compound area. The shelter houses AT&T's equipment and space for a back-up generator. 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 and will be placed on a 4' x 8' concrete pad. (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 West Hartford. A copy of this submission is also being sent to the Church of St. Mark the Evangelist Corporation, the property owner on which the tower is located.

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

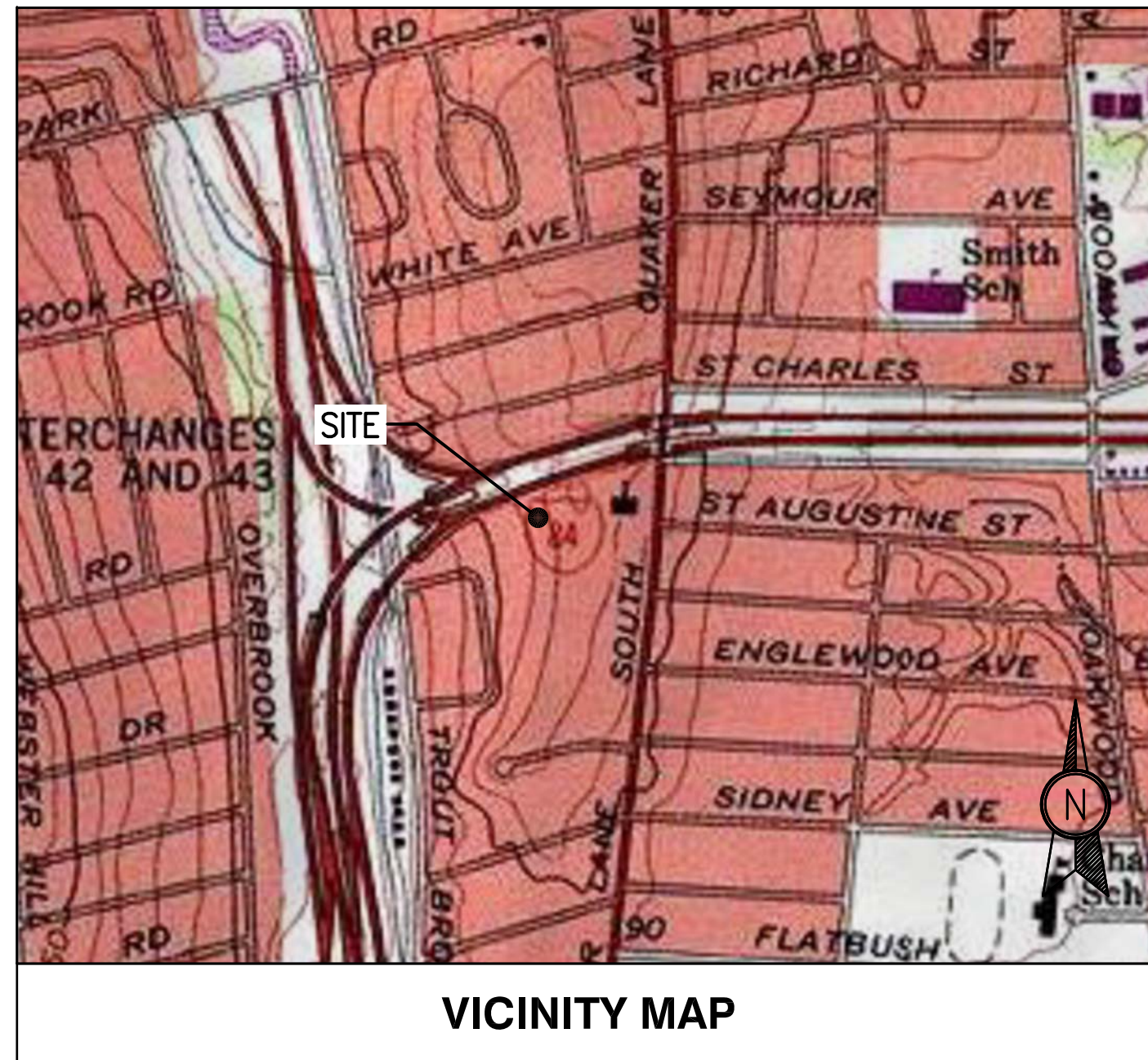
On behalf of AT&T

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

cc: **Town of West Hartford, CT**
Church of St. Mark the Evangelist Corporation

Exhibit 1

Site Plan



VICINITY MAP



BACKUP POWER PROJECT

SITE IDENTIFICATION

SITE NUMBER: 10071355

SITE NAME: WEST HARTFORD

**SITE ADDRESS: 491 SOUTH QUAKER LANE
WEST HARTFORD, CT 06110**



LOCAL MAP



Civil Structural - Land Surveying
R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST,
SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



TOWER RESOURCE MANAGEMENT
30 LYMAN STREET
WESTBOROUGH, MA 01581
PHONE: (508) 389-1731
www.trmcom.com



AT&T MOBILITY
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701



Know what's below.
Call before you dig.

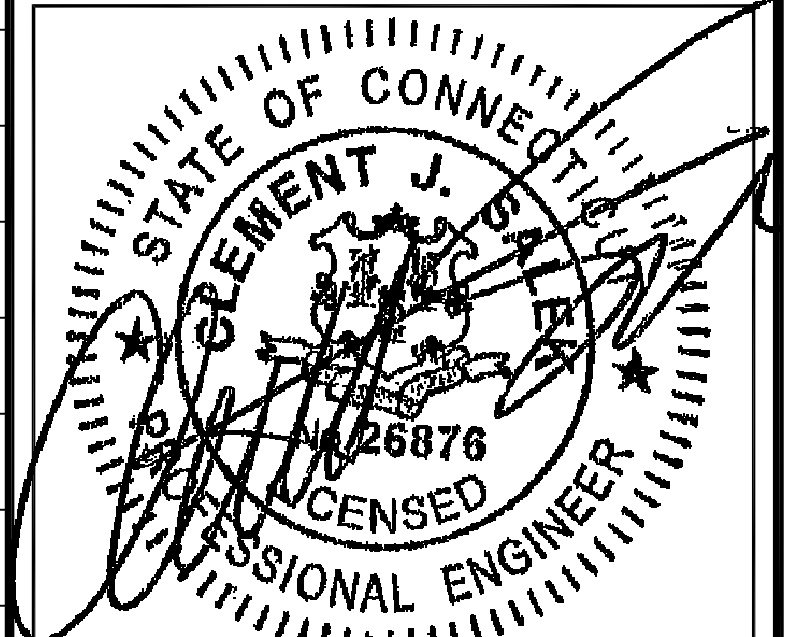
PROJECT DESCRIPTION
**THE PROPOSED PROJECT INCLUDES PLACING A 50 KW GENERATOR
WITHIN AN EXISTING CELLULAR TOWER COMPOUND.**

| PROJECT TEAM | PROJECT SUMMARY | PROJECT NOTES | SHEET INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|-----------|--------------|------|-------|-----|-----|---|---|----------|-----|-----|-----------|---|----------|-----|-----|----------------------|---|----------|-----|-----|--------------------------|---|----------|-----|-----|--------------------|---|----------|-----|-----|----------------------------------|---|----------|-----|-----|----------------------------|---|----------|-----|
| <p>ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752 508-481-7400</p> <p>APPLICANT: AT&T MOBILITY 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701</p> <p>CUSTOMER REPRESENTATIVE: SABRE INDUSTRIES PEGGY POOR MARKET LEAD - AT&T NE GENERATOR PROGRAM 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1 ALPHARETTA, GA 30004 770-990-0137</p> <p>LANDLORD: OMNIPOINT COMMUNICATIONS, INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWN CASTLE</p> <p>UTILITIES: POWER COMPANY: CONNECTICUT LIGHT & POWER P.O. BOX 270 HARTFORD, CT 06141 (800) 286-2000</p> | <p>GEOGRAPHIC COORDINATES: LATITUDE: N 41° 44' 55.54" LONGITUDE: W 72° 43' 52.75"</p> <p>CODE BLOCK: CT BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE</p> <p>AT&T OPS FOR POWER CUT OVER: NEED 24 HOUR NOTICE TO OPEN A TAP TICKET DIAL: 1-800-638-2822 SELECT OPTION 1, THEN OPTION 2</p> <p>MUX NOTE: 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. IS NOT PRESENT. CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.</p> | <ol style="list-style-type: none"> 1. THE FACILITY IS UNMANNED 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED 5. HANDICAP ACCESS IS NOT REQUIRED <p>PROJECT LOCATION DIRECTIONS</p> <ul style="list-style-type: none"> - TAKE I-90 WEST TOWARDS SPRINGFIELD/ALBANY NY - TAKE EXIST 9 TO MERGE ONTO I-84 TOWARDS US-20/HARTFORD/NEW YORK CITY - TAKE EXIT 44 TOWARDS PROSPECT OAKWOOD AVENUES - TURN LEFT ONTO KANE STREET - TURN LEFT ONTO OAKWOOD AVENUE - TAKE THE FIRST RIGHT ONTO WILFRED STREET - TURN LEFT ONTO QUAKER LANE SOUTH - DESTINATION WILL BE ON THE RIGHT | <table border="1"> <thead> <tr> <th>SHEET NO:</th> <th>DESCRIPTION:</th> <th>REV:</th> <th>DATE:</th> <th>BY:</th> </tr> </thead> <tbody> <tr> <td>T-1</td> <td>TITLE SHEET, VICINITY MAP & GENERAL INFORMATION</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>A-1</td> <td>SITE PLAN</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>A-2</td> <td>CONCRETE PAD DETAILS</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>E-1</td> <td>GENERATOR WIRING DIAGRAM</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>E-2</td> <td>ELECTRICAL DETAILS</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>E-3</td> <td>GENERATOR CONTROL & ALARM WIRING</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> <tr> <td>G-1</td> <td>GROUNDING & TRENCH DETAILS</td> <td>1</td> <td>01/28/14</td> <td>CAW</td> </tr> </tbody> </table> | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: | T-1 | TITLE SHEET, VICINITY MAP & GENERAL INFORMATION | 1 | 01/28/14 | CAW | A-1 | SITE PLAN | 1 | 01/28/14 | CAW | A-2 | CONCRETE PAD DETAILS | 1 | 01/28/14 | CAW | E-1 | GENERATOR WIRING DIAGRAM | 1 | 01/28/14 | CAW | E-2 | ELECTRICAL DETAILS | 1 | 01/28/14 | CAW | E-3 | GENERATOR CONTROL & ALARM WIRING | 1 | 01/28/14 | CAW | G-1 | GROUNDING & TRENCH DETAILS | 1 | 01/28/14 | CAW |
| SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A-1 | SITE PLAN | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A-2 | CONCRETE PAD DETAILS | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-1 | GENERATOR WIRING DIAGRAM | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-2 | ELECTRICAL DETAILS | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-3 | GENERATOR CONTROL & ALARM WIRING | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-1 | GROUNDING & TRENCH DETAILS | 1 | 01/28/14 | CAW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SITE NUMBER:
10071355

SITE NAME:
WEST HARTFORD

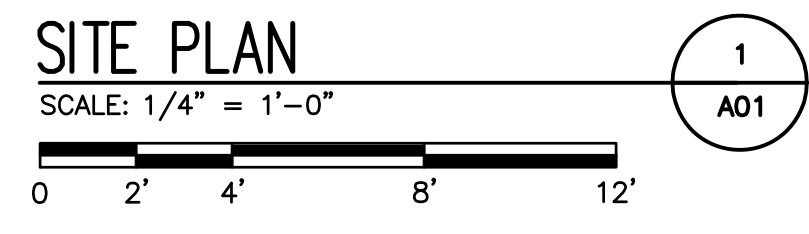
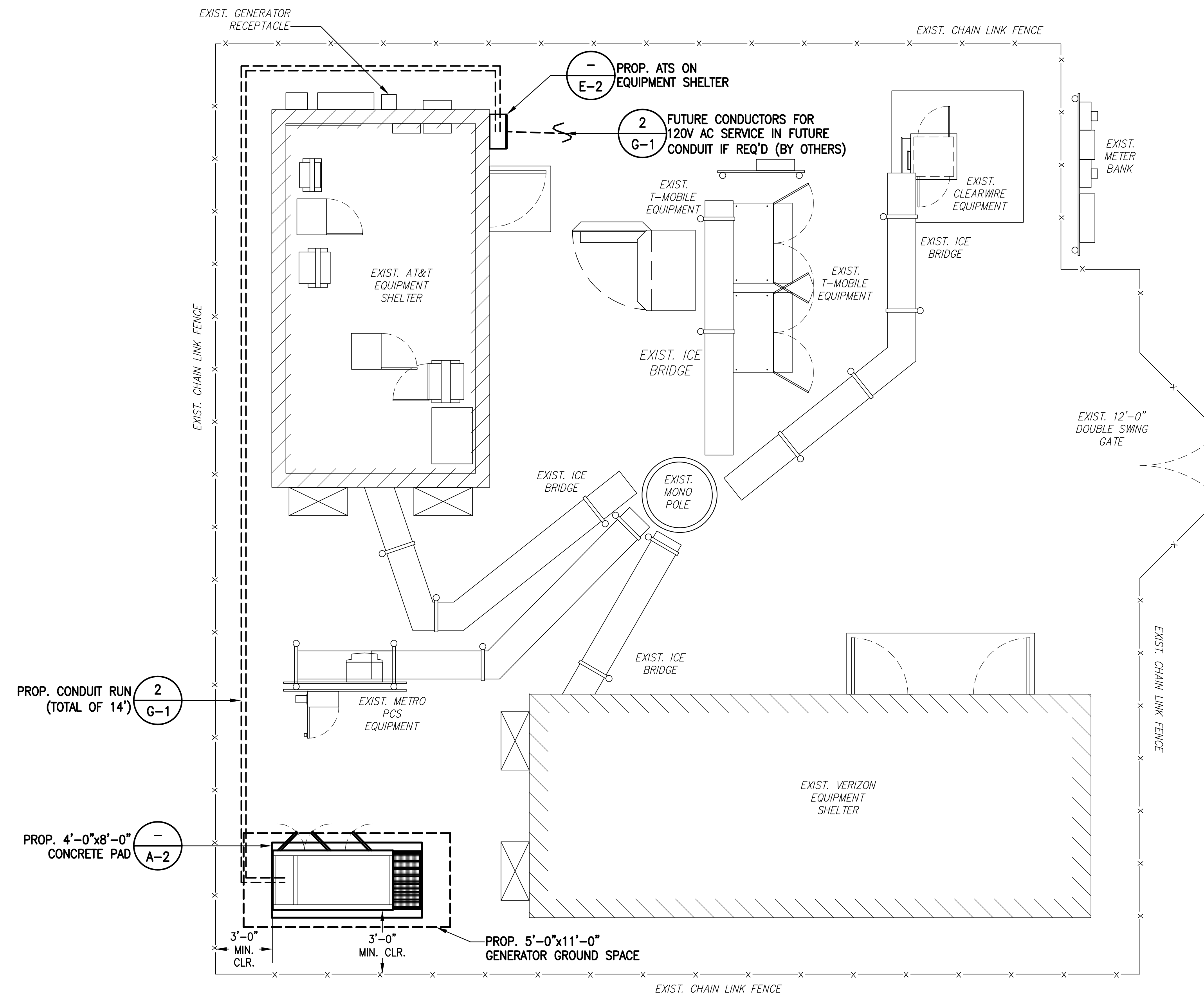
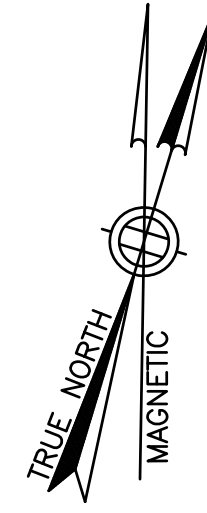
SITE ADDRESS:
491 SOUTH QUAKER LANE
WEST HARTFORD, CT 06110



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|--------------------------|------|
| ENGINEER/LAND SURVEYOR | DATE |
| DRAWN BY: CAW | |
| CHECKED BY: JMT | |
| DATE DRAWN: 01/28/14 | |
| GEA JOB NUMBER: 1337.008 | |

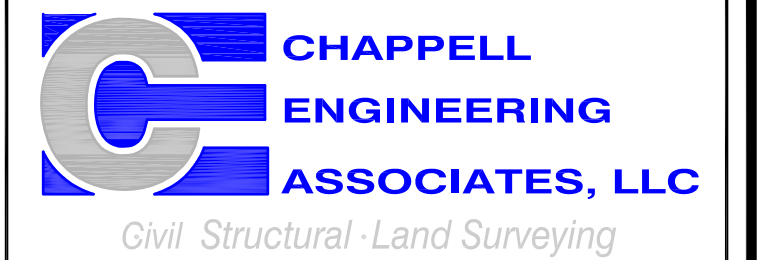
DRAWING TITLE:
TITLE SHEET
VICINITY MAP &
GENERAL INFO

| | |
|---------------------------|-----------------------|
| DRAWING NO: T-1 | REVISION: 1 |
|---------------------------|-----------------------|



NOTES:

1. A SITE VISIT/SURVEY WAS NOT CONDUCTED BY CHAPPELL ENGINEERING ASSOCIATES. SITE PLAN REFERENCED FROM DRAWINGS ENTITLED "WEST HARTFORD" BY HUDSON DESIGN GROUP, DATED 04/17/12
2. ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL MANUFACTURER'S REQUIRED CLEARANCES FOR GENERATOR AND AUTOMATIC TRANSFER SWITCH.
3. 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 IS NOT PRESENT. CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.
4. CONTRACTOR TO MAINTAIN 3'-0" MINIMUM WORKING CLEARANCE ON ALL SIDES OF GENERATOR. CONTRACTOR TO CONTACT ENGINEER IF 3'-0" CLEARANCE CAN NOT BE MAINTAINED.



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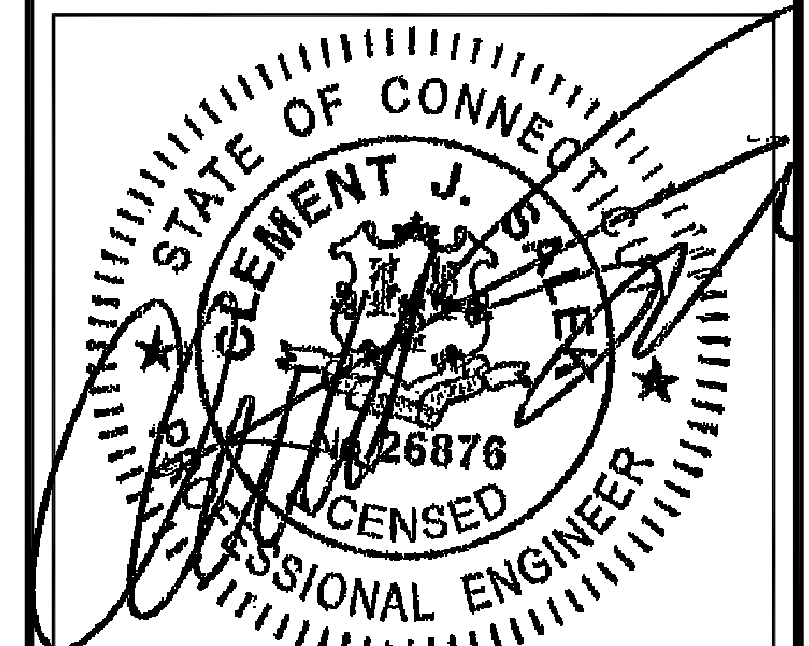
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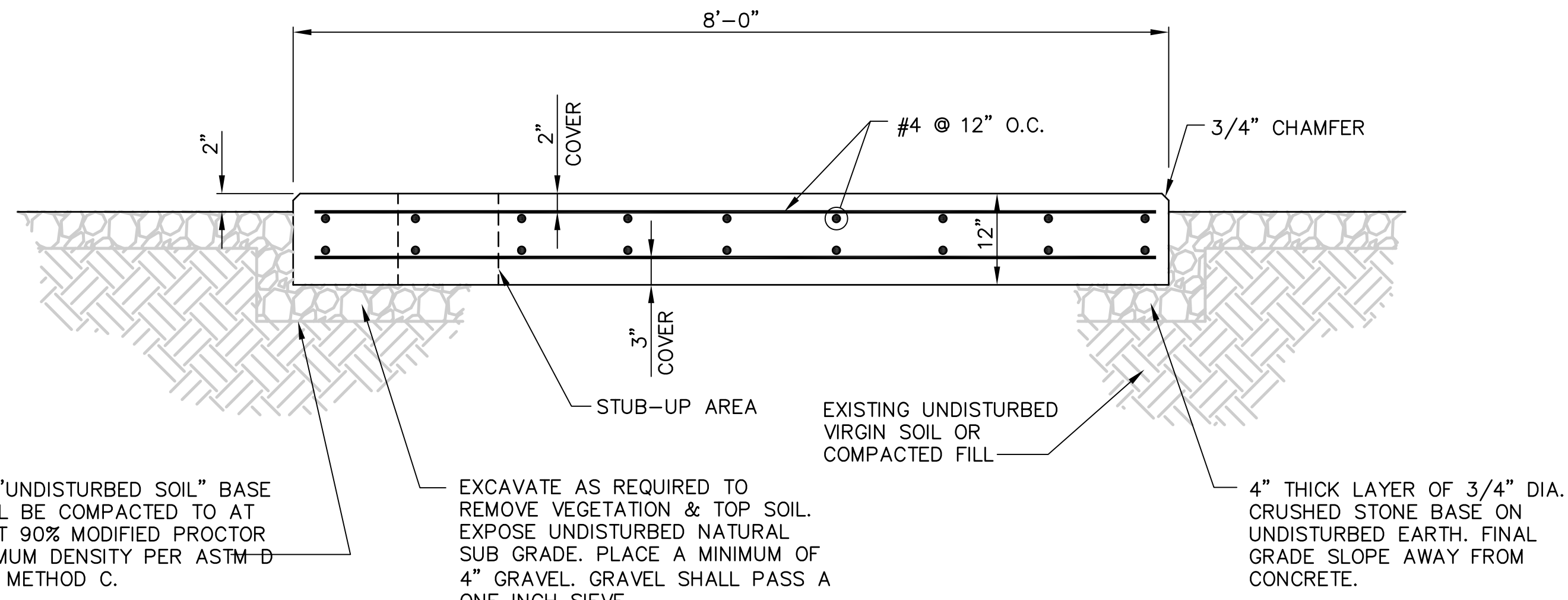


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|--------------------------|------|
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| DRAWN BY: CAW | |
| CHECKED BY: JMT | |
| DATE DRAWN: 01/28/14 | |
| CEA JOB NUMBER: 1337.008 | |

DRAWING TITLE:

SITE PLAN

| | |
|-------------|-----------|
| DRAWING NO: | REVISION: |
| A-1 | 1 |

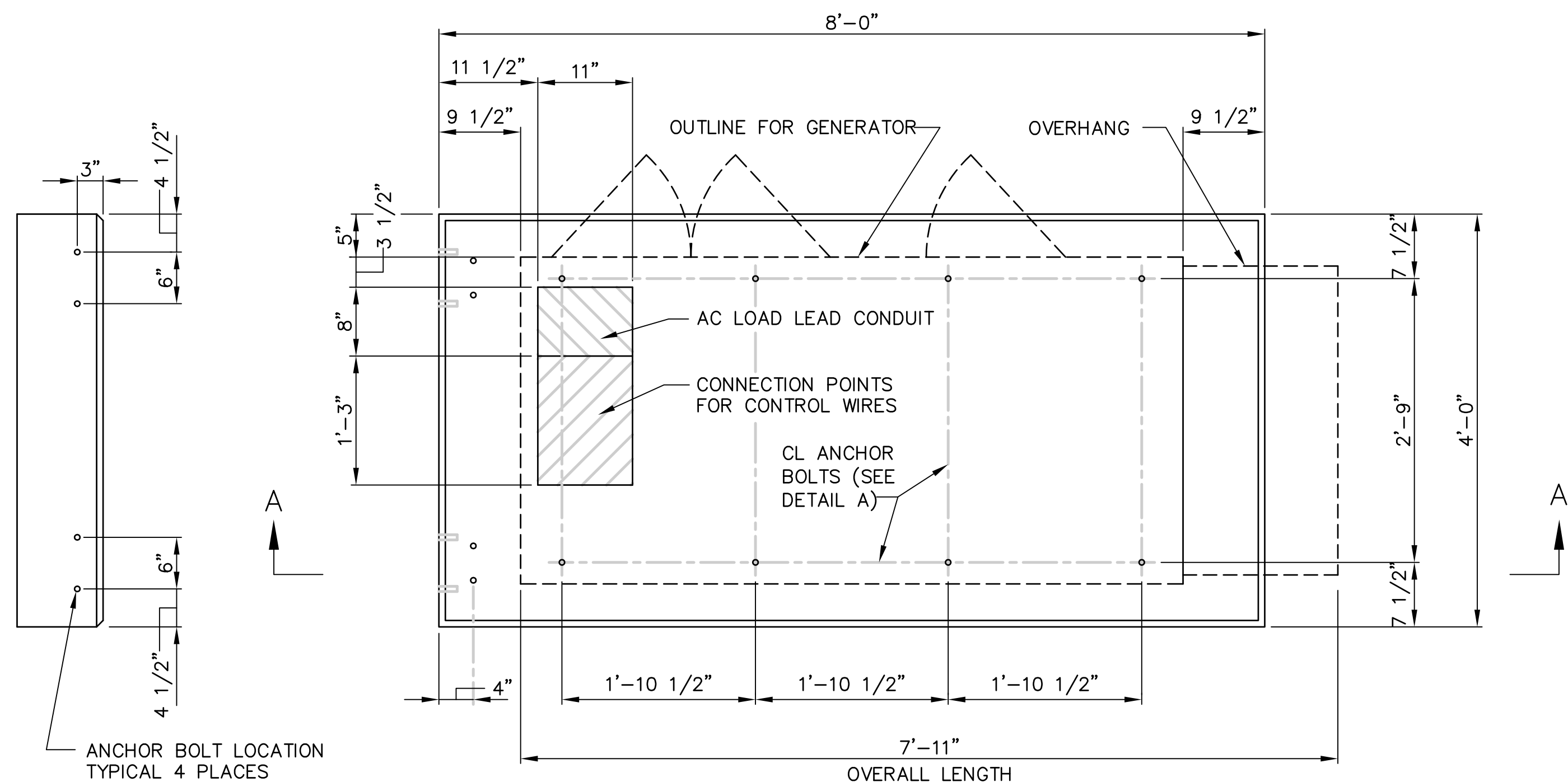


THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.

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

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

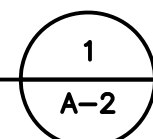
SECTION A-A



PLAN VIEW

CONCRETE SLAB (GENERATOR FOUNDATION)

SCALE: NOT TO SCALE



CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-95) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACIW301, ACIW318, ASTM A184 AND ASTM A185.
- MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDING WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
- DETAILING SHALL BE ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-315-92).
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" IN ACCORDANCE WITH ACI 301 SECTION 4.2.2 UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE IN ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. CONCRETE COVER SHALL BE 3" MINIMUM.
- TOP OF FOUNDATION TO HAVE A "BRUSH FINISH".
- EXPOSED FINISHED SURFACE IS NOT TO HOLD WATER.
- ALL SURFACES ARE TO BE CLEANED OF ANY RESIDUAL CONCRETE FROM SPLASHING OR SPILLS.

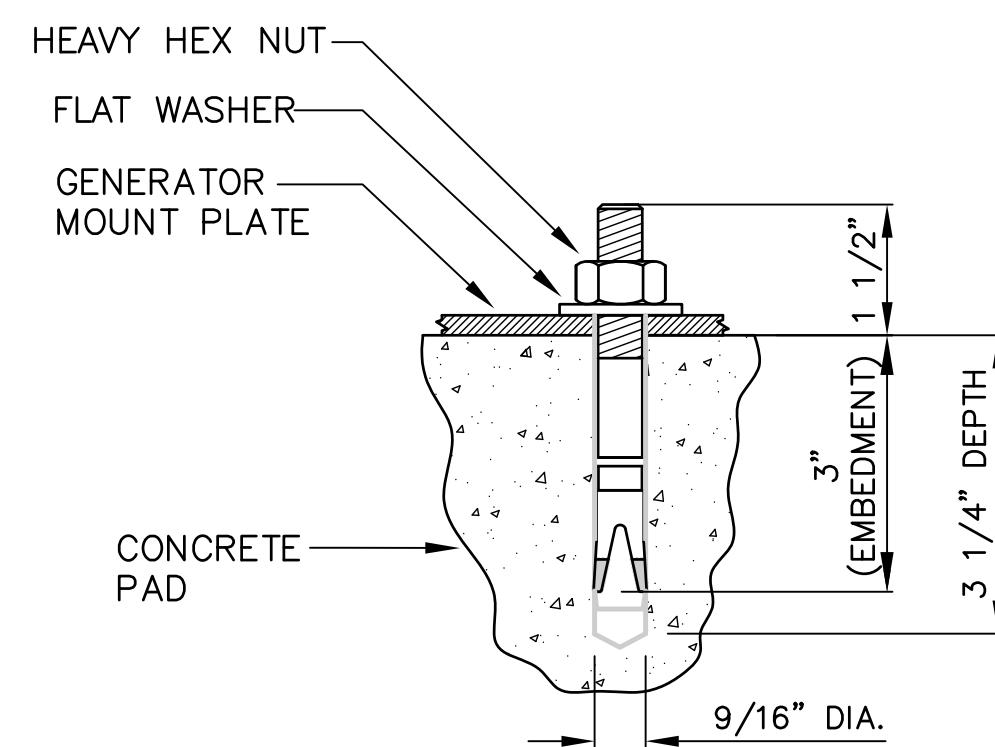
SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL, EXPOSE UNDISTURBED NATURAL SUB GRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEO TECHNICAL OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUB BASE SHALL BE UNIFORM & LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOF ROLL THE SUB GRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

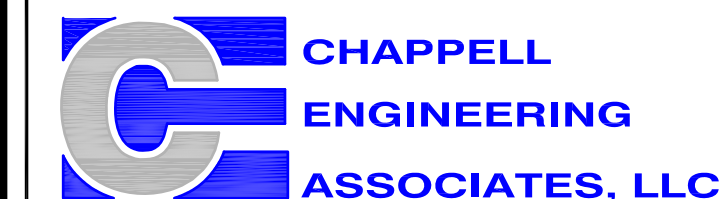
| MATERIALS LIST (FOR ONE CONCRETE PAD) | | | | | | |
|---------------------------------------|-------------|--------------------------------|--------------------|--------------------------------------|-----------------|--|
| QTY REQ'D. | SIZE | TOTAL LENGTH | TOTAL WEIGHT (LBS) | TYPE | BENDING DIAGRAM | |
| | | | | | DIMENSION | |
| 20 | 1/2" | 4 1/2" LONG WITH 2 7/8" THREAD | -- | "HILTI" KWIK BOLT 3 EXPANSION ANCHOR | A= 4 1/2" | |
| 12 | #4 | 9'-9 1/2" | 78 | STRAIGHT | A= 9'-9 1/2" | |
| 18 | #4 | 7'-9 1/2" | 94 | | A= 7'-9 1/2" | |
| 4 | #4 | 7'-9 3/8" | 21 | | A= 7'-9 3/8" | |
| 6 | #4 | 2'-7 1/2" | 11 | | A= 2'-7 1/2" | |
| 4 | #4 | 0'-5 5/8" | 2 | | A= 0'-5 5/8" | |
| STANDARD REBAR SIZES & WEIGHTS | | | | | | |
| BAR NO | LBS PER FT. | DIA. INCHES | GRADE | | | |
| 4 | .6676 | .500 | 60 | | | |



DETAIL A
SCALE: NOT TO SCALE

"HILTI" KWIK BOLT 3 EXPANSION ANCHOR NOTES:

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



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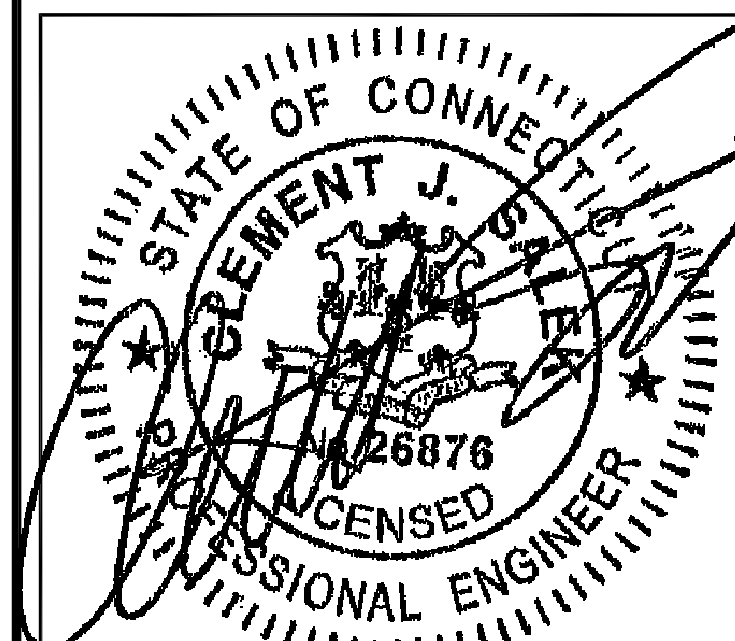
10071355

SITE NAME:

WEST HARTFORD

SITE ADDRESS:

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WEST HARTFORD, CT 06110



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| ENGINEER/LAND SURVEYOR | DATE |
| DRAWN BY: CAW | |
| CHECKED BY: JMT | |
| DATE DRAWN: 01/28/14 | |
| GEA JOB NUMBER: 1337.008 | |

DRAWING TITLE:

CONCRETE PAD
DETAILS

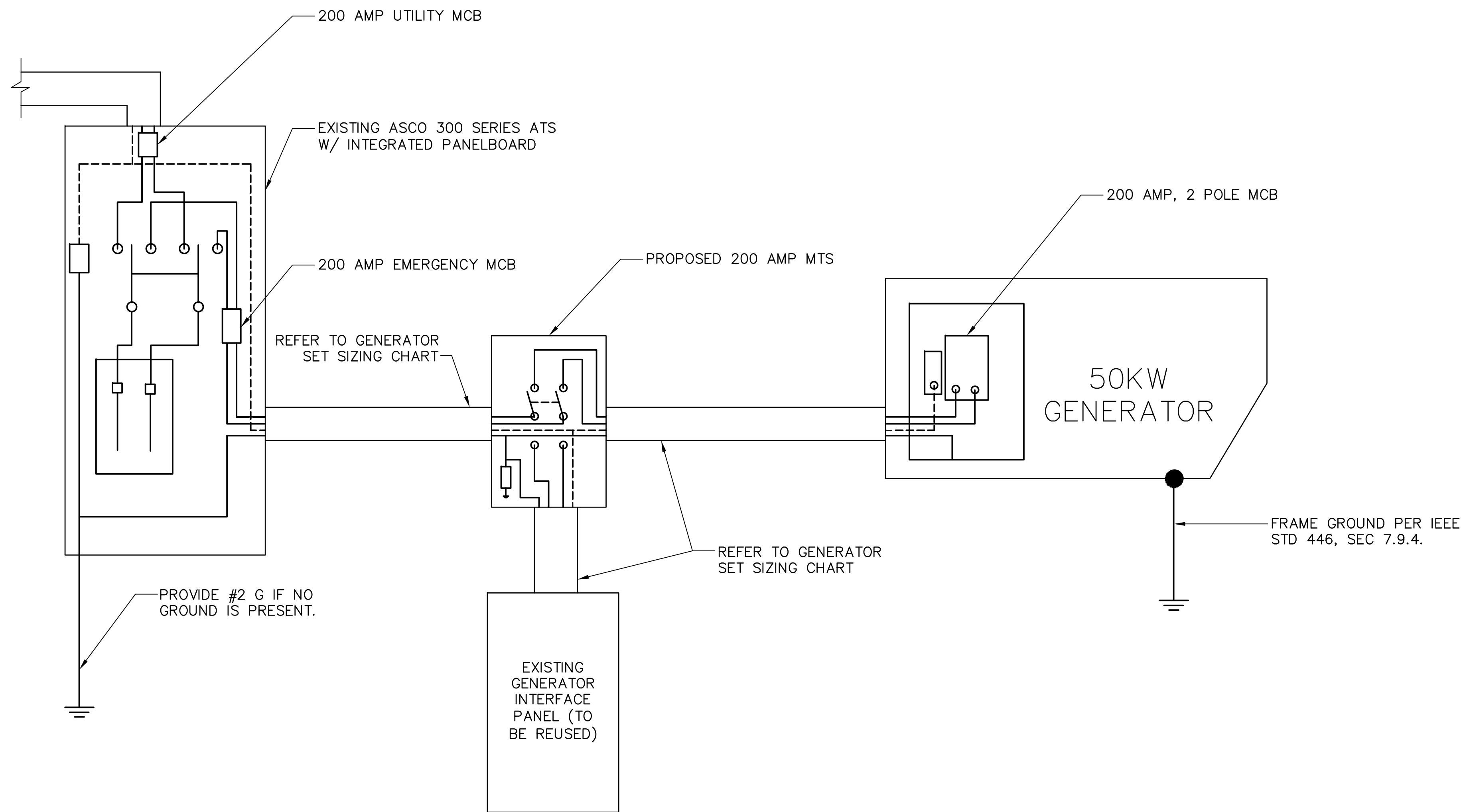
DRAWING NO.:

A-2

REVISION:

1

MUX NOTE:
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 IS NOT PRESENT. CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.



SINGLE CARRIER WIRING DIAGRAM 1
SCALE: NOT TO SCALE E-1

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

GENERATOR SET SIZING CHARTS 2
SCALE: NOT TO SCALE E-1

- NOTES:
- ALL UNDERGROUND CABLE TO BE BURIED AT 36" MIN. SHIELD TAPED AT 12" AND STUBBED OUT OF GROUND IN SCH 40 PVC CONDUIT.
 - LOW VOLTAGE CONTROL WIRE PROVIDED BY MONITORING PROVIDER IN SEPARATE 1/2" CONDUIT FROM ATS TO GENERATOR.
 - BTS SITES: THE TENANT CONTRACTOR TO COMPLETE CUSTOMER ELECTRICAL CONDUIT TO CUSTOMER METER PER STANDARD COLLOCATION INSTALL.
 - TENANT CONTRACTOR HAS NOTHING TO INSTALL OR COMPLETE FOR ATC SHARED GEN DURING CUSTOMER COLLOCATION ON ATC TOWER.
 - ATC SHARED GEN INSTALL IS COMPLETED AFTER CUSTOMER TOWER COLLOCATION IS COMPLETE WITH LOAD ON CUSTOMER METER.
 - ALL CONDUCTORS ARE SIZED FOR COPPER, BUT ALUMINUM CONDUCTORS ARE ALLOWED FOR FEEDERS PROVIDED THEY ARE UPSIZED PER NEC TABLE 310.16.
 - ALL ELECTRICAL WORK SHALL BE PER THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL APPLICABLE LOCAL CODES.
 - MAINTAIN 36" CLEAR WORKSPACE IN FRONT OF METER, TRANSFER SWITCH, GENERATOR, PANELS, ETC.
 - 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.
 - GENERATOR CONTROLS AND SENSORS SHALL HAVE GFCI SENSING CAPABILITY PER NEC 700-6(D).

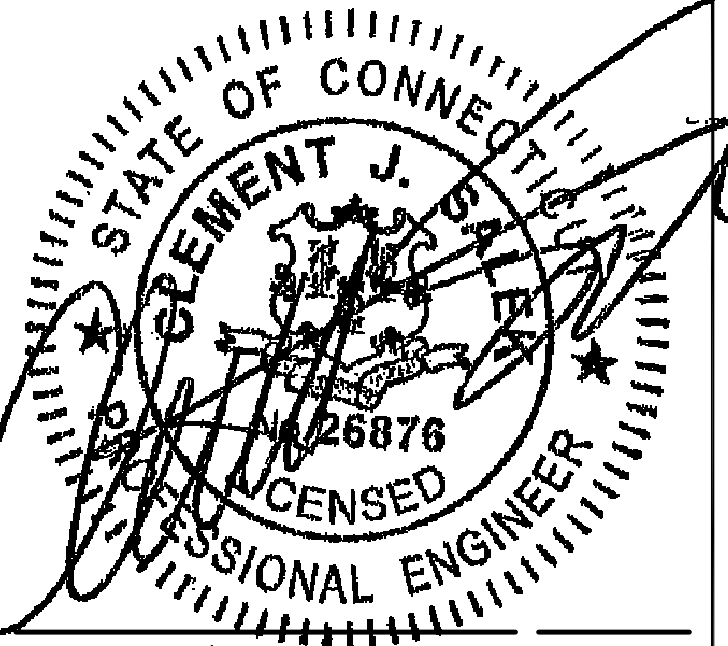
MUX NOTE:
CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE IS NOT PRESENT. CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA.

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SITE NUMBER:
10071355
SITE NAME:
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SITE ADDRESS:
491 SOUTH QUAKER LANE
WEST HARTFORD, CT 06110



| | |
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| ENGINEER/LAND SURVEYOR | DATE |
| DRAWN BY: CAW | |
| CHECKED BY: JMT | |
| DATE DRAWN: 01/28/14 | |
| GEA JOB NUMBER: 1337.008 | |

DRAWING TITLE:
GENERATOR WIRING DIAGRAM

| | |
|--------------------|----------------|
| DRAWING NO: E-1 | REVISION: 1 |
|--------------------|----------------|

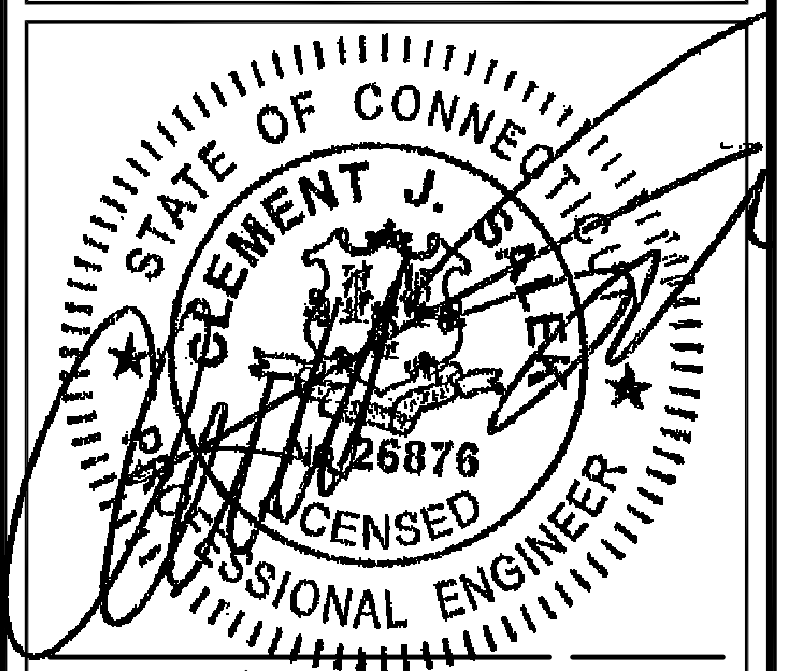
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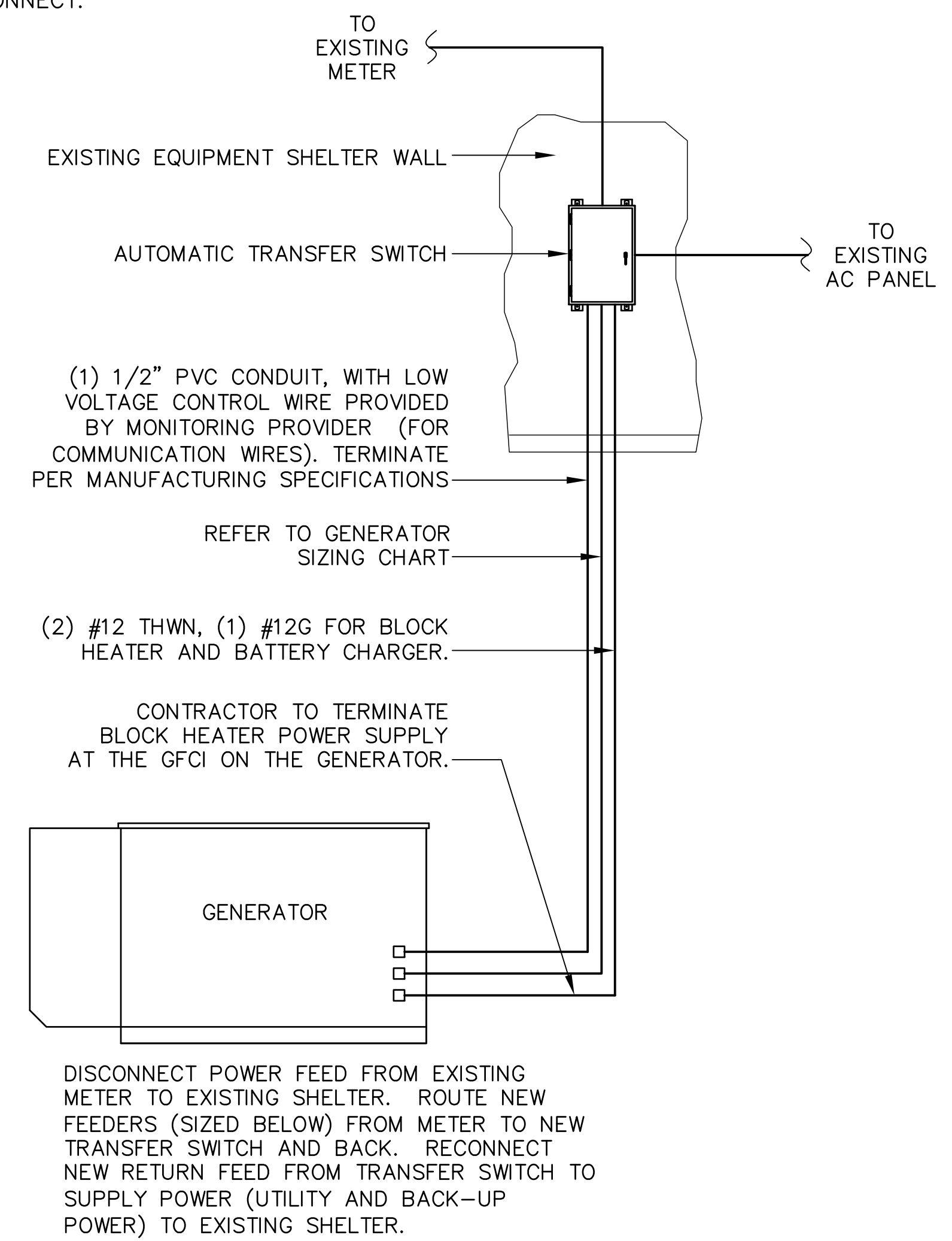


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| ENGINEER/LAND SURVEYOR | DATE |
| DRAWN BY: CAW | |
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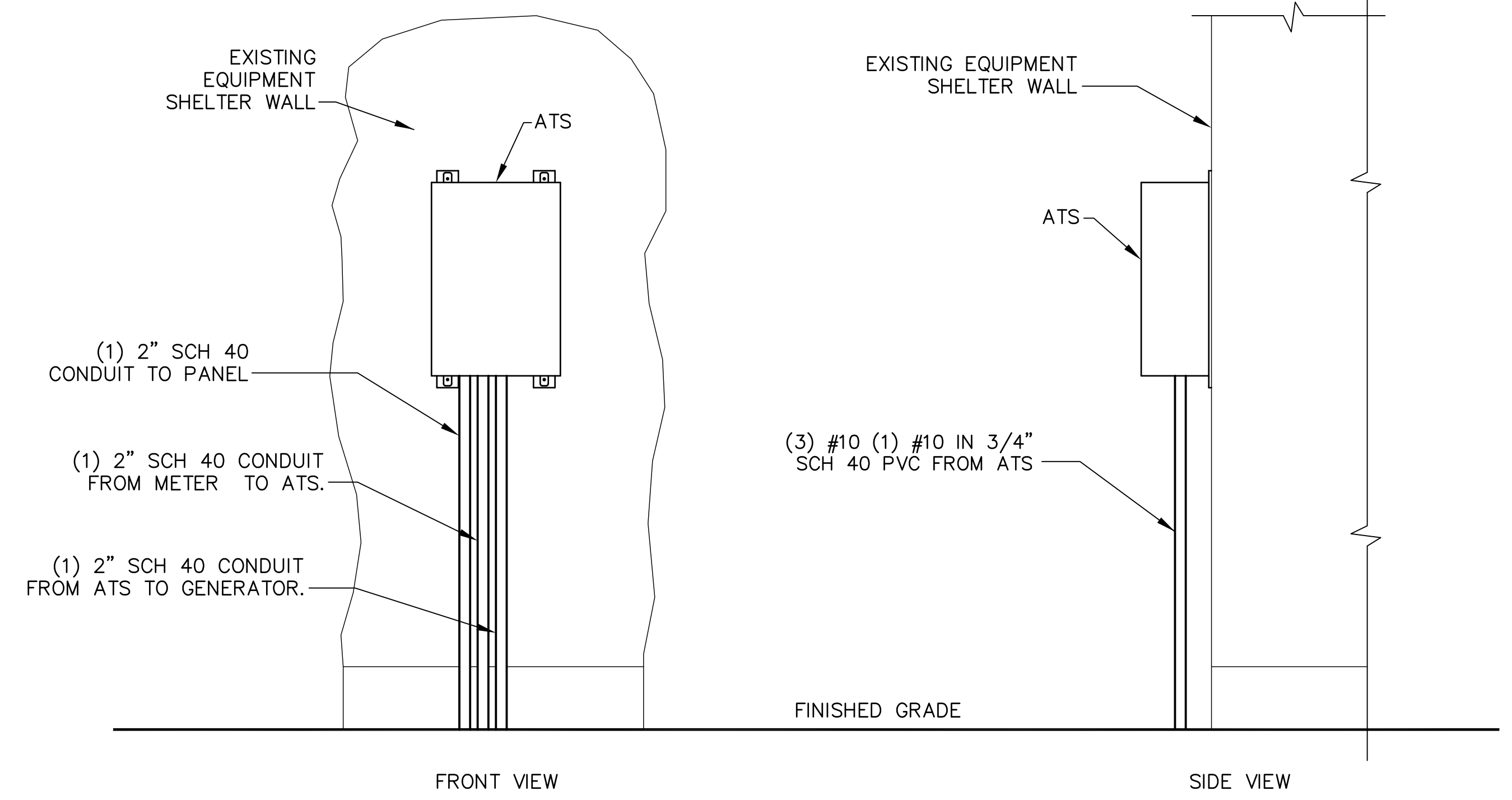
DRAWING TITLE:
ELECTRICAL DETAILS

| | |
|--------------------|----------------|
| DRAWING NO: E-2 | REVISION: 1 |
|--------------------|----------------|

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.



METER CONFIGURATION 1
 SCALE: NOT TO SCALE E-2



AUTOMATIC TRANSFER SWITCH LAYOUT 2
 SCALE: NOT TO SCALE E-2

| SITE GENERATOR CONTROL & ALARMS RECEPTACLE | | | | | | | | |
|---|---|--------------------------|--|---------|--------|---|-----------------------------------|----|
| Distributor for Deutsch connectors is LADD Industries. Contact: Melissa Watkins (800)-223-1236 melissaw@laddinc.com | | | LADD website: LADD Industries- Deutsch IPD Electrical Connectors | | | | | |
| GENERATOR FUNCTION | DEUTSCH DTM0412PA-L012 SITE RECEPTACLE FOR GENERATOR ALARMS & CONTROL | | CONNECTING CABLE | | | SITE CONNECTIONS | NOTES | |
| | SOCKET PART # | PIN # | TYPE & PART # | SIZE | COLOR | | | |
| (CONTROL) AUTOMATIC START/STOP | #16 AWG 1062-20-0122 | 1 | SJTO (2 Conductor) ANIXTER #4BT-1602 | #16 AWG | BLACK | AUTO TRANSFER SWITCH ENGINE CONTROL LEADS (FOR CINGULAR STANDARD: INTERSECT/ASCO USE TB 14 & 15 - SEE CONTROL WIRING WORKSHEET) | "CLOSE" = ENGINE START (NO) | |
| | #16 AWG 1062-20-0122 | 2 | | #16 AWG | WHITE | | "CLOSE" = ALARM (NO) | |
| (ALARM) GENERATOR RUNNING | #22 AWG 0462-201-20141 | 3 | (10 Conductor) BELDEN 8456 | #22 AWG | BLACK | SITE EXTERNAL ALARM BLOCK (GENERATOR RUNNING-MAJOR) | "CLOSE" = ALARM (NO) | |
| | #22 AWG 0462-201-20141 | 4 | | #22 AWG | WHITE | | "CLOSE" = ALARM (NO) | |
| (ALARM) GENERATOR LOW FUEL | #22 AWG 0462-201-20141 | 5 | | #22 AWG | RED | SITE EXTERNAL ALARM BLOCK (GENERATOR LOW FUEL-CRITICAL) | "CLOSE" = ALARM (NO) | |
| | #22 AWG 0462-201-20141 | 6 | | #22 AWG | GREEN | | "CLOSE" = ALARM (NO) | |
| (ALARM) GENERATOR FAIL - MAJOR (SHUTDOWN) | #22 AWG 0462-201-20141 | 7 | | #22 AWG | BROWN | SITE EXTERNAL ALARM BLOCK (GENERATOR FAIL - CRITICAL) | "CLOSE" = ALARM (NO) | |
| | #22 AWG 0462-201-20141 | 8 | | #22 AWG | BLUE | | "CLOSE" = ALARM (NO) | |
| (ALARM) GENERATOR MISSING (THEFT) | #22 AWG 0462-201-20141 | 9 | | #22 AWG | ORANGE | SITE EXTERNAL ALARM BLOCK (GENERATOR MISSING - MAJOR) | "OPEN" = ALARM (NC) | |
| | #22 AWG 0462-201-20141 | 10 | | #22 AWG | YELLOW | | "CLOSE" = ALARM (NO) | |
| (ALARM) GENERATOR WARNING - MINOR (NON-SHUTDOWN) | #22 AWG 0462-201-20141 | 11 | | #22 AWG | PURPLE | SITE EXTERNAL ALARM BLOCK (GENERATOR WARNING - MAJOR) | "CLOSE" = ALARM (NO) | |
| | #22 AWG 0462-201-20141 | 12 | | #22 AWG | GRAY | | "CLOSE" = ALARM (NO) | |
| NA | WM-12S | RECEPTACLE WEDGE LOCK | | NA | NA | NA | NA | NA |

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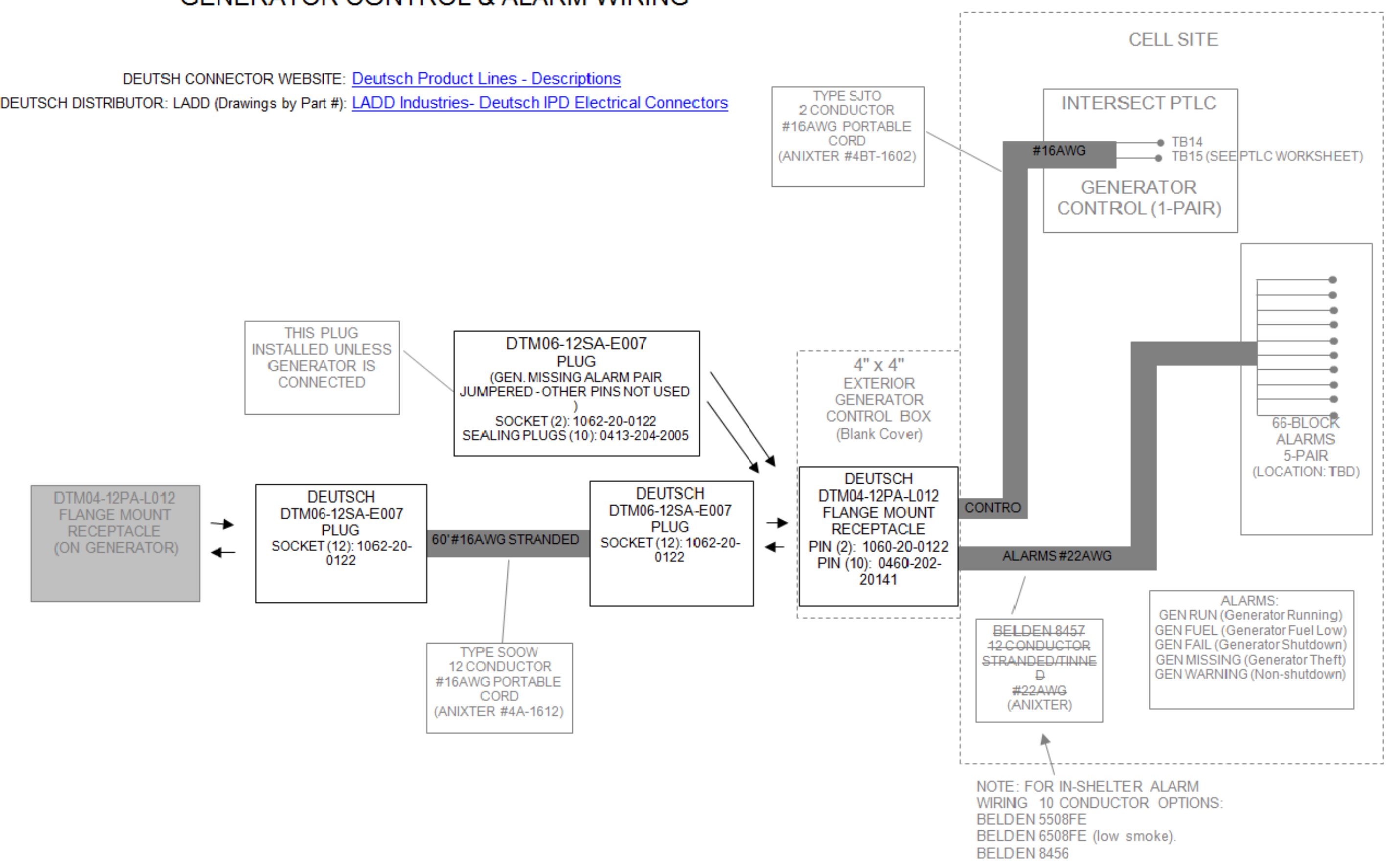
| 60' GENERATOR ALARM & CONTROL CABLE MATERIALS LIST | | | |
|--|-----------------|--|--|
| DEUTSCH DTM0612SA-E007 CABLE PLUG FOR GENERATOR ALARMS & CONTROL | | CONNECTING CABLE | DEUTSCH DTM0612SA-E007 CABLE PLUG FOR GENERATOR ALARMS & CONTROL |
| PIN PART # | PIN # | TYPE & PART # | PIN # |
| #16 AWG 1060-20-0122 | 1 | 60' SOOW 12 conductor #16 AWG Generator Alarm Cable ANIXTER #4A-1612 | 1 |
| #16 AWG 1060-20-0122 | 2 | | 2 |
| #16 AWG 1060-20-0122 | 3 | | 3 |
| #16 AWG 1060-20-0122 | 4 | | 4 |
| #16 AWG 1060-20-0122 | 5 | | 5 |
| #16 AWG 1060-20-0122 | 6 | | 6 |
| #16 AWG 1060-20-0122 | 7 | | 7 |
| #16 AWG 1060-20-0122 | 8 | | 8 |
| #16 AWG 1060-20-0122 | 9 | | 9 |
| #16 AWG 1060-20-0122 | 10 | | 10 |
| #16 AWG 1060-20-0122 | 11 | | 11 |
| #16 AWG 1060-20-0122 | 12 | | 12 |
| WM-12P | PLUG WEDGE LOCK | NA | PLUG WEDGE LOCK WM-12P |

| DEUTSCH DTM0612SA-E007 SITE PLUG FOR GENERATOR MISSING ALARM BYPASS | |
|---|-----------------|
| PIN PART # | PIN # |
| DTM SEALING PIN 0413-204-2005 | 1 |
| DTM SEALING PIN 0413-204-2005 | 2 |
| DTM SEALING PIN 0413-204-2005 | 3 |
| DTM SEALING PIN 0413-204-2005 | 4 |
| DTM SEALING PIN 0413-204-2005 | 5 |
| DTM SEALING PIN 0413-204-2005 | 6 |
| DTM SEALING PIN 0413-204-2005 | 7 |
| DTM SEALING PIN 0413-204-2005 | 8 |
| #16 AWG 1060-20-0122 | 9 |
| #16 AWG 1060-20-0122 | 10 |
| DTM SEALING PIN 0413-204-2005 | 11 |
| DTM SEALING PIN 0413-204-2005 | 12 |
| WM-12P | PLUG WEDGE LOCK |

JUMPER PINS 9 & 10 USING #16 AWG

GENERATOR CONTROL & ALARM WIRING

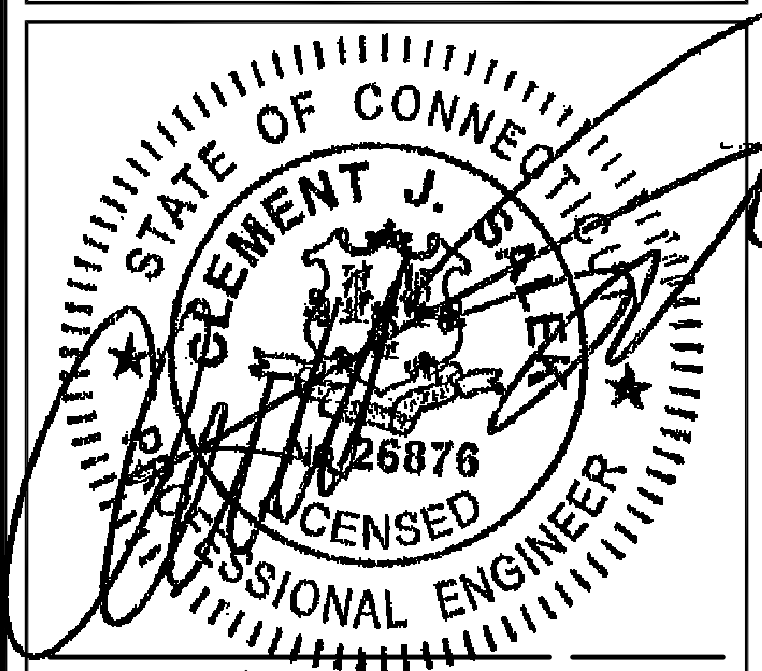
DEUTSCH CONNECTOR WEBSITE: Deutsch Product Lines - Descriptions
DEUTSCH DISTRIBUTOR: LADD (Drawings by Part #: LADD Industries- Deutsch IPD Electrical Connectors)



NOTE: FOR IN-SHELTER ALARM WIRING 10 CONDUCTOR OPTIONS:
BELDEN 5508FE
BELDEN 6508FE (low smoke).
BELDEN 8456

Cingular Wireless Central Region BTS Planning & Standards
DRAFT - 03/06/2006

SITE NUMBER:
10071355
SITE NAME:
WEST HARTFORD
SITE ADDRESS:
491 SOUTH QUAKER LANE
WEST HARTFORD, CT 06110



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| DATE DRAWN: 01/28/14 | |
| CEA JOB NUMBER: 1337.008 | |

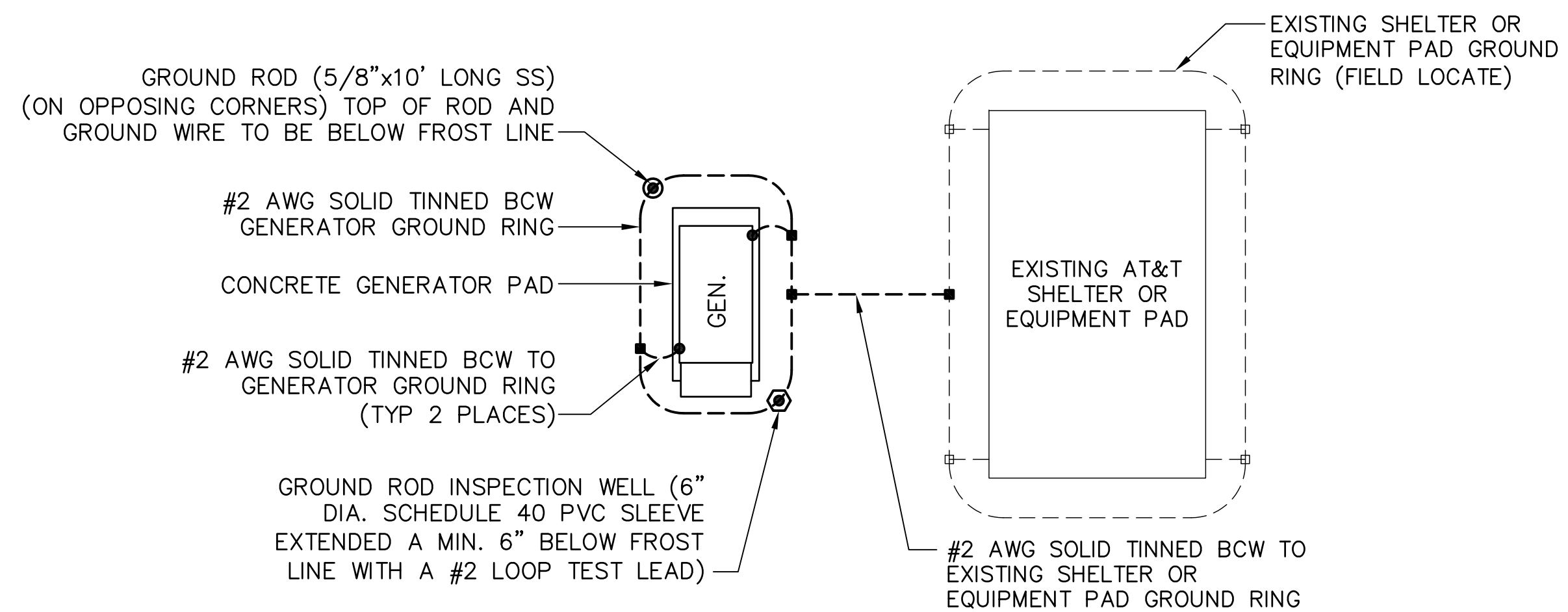
DRAWING TITLE:
GENERATOR CONTROL & ALARM WIRING

| | |
|--------------------|----------------|
| DRAWING NO: E-3 | REVISION: 1 |
|--------------------|----------------|

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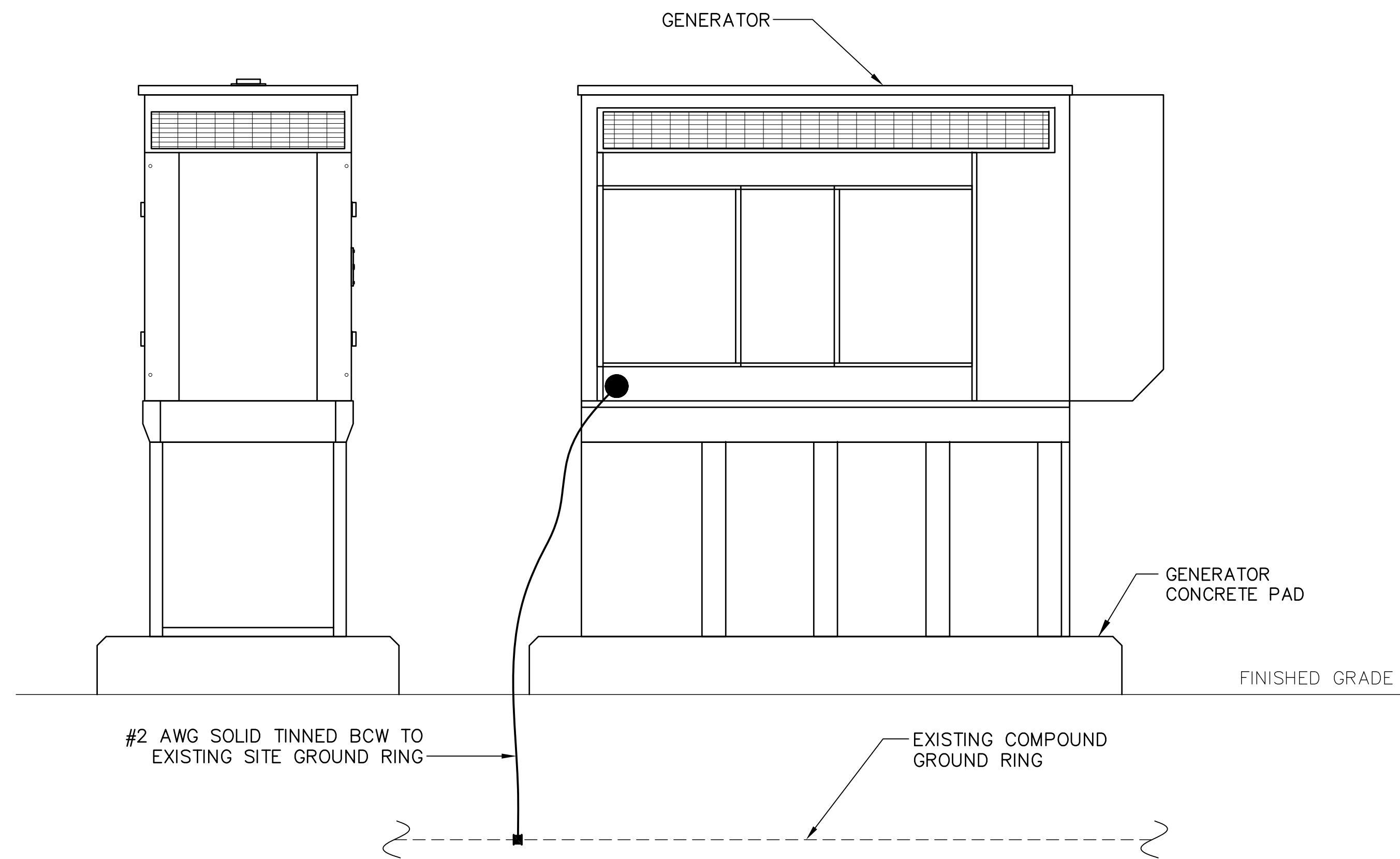
NOTES:

1. ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE NOT POSSIBLE.
2. GENERATOR SYSTEM SHALL BE SOLIDLY GROUND PER NEC 250.020.
3. ELECTRICIAN SHALL VERIFY THAT GROUNDING IS INSTALLED SO THAT NO CIRCULATING CURRENTS ARE POSSIBLE SO GROUNDING IS CONNECTED TO EXISTING TOWER GROUND FIELD.
4. ALL LIGHTNING GROUNDING SHALL BE FREE OF KINKS AND SHALL HAVE LONG RADIUS BENDS (MINIMUM 8").
5. ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
6. CAD WELD CONNECTION FOR GROUNDING CONDUCTORS BETWEEN PROPOSED AND EXISTING SECTIONS OF FENCE,
7. USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING (2) FENCE POSTS AND CADWELD FROM GENERATOR GROUND RING

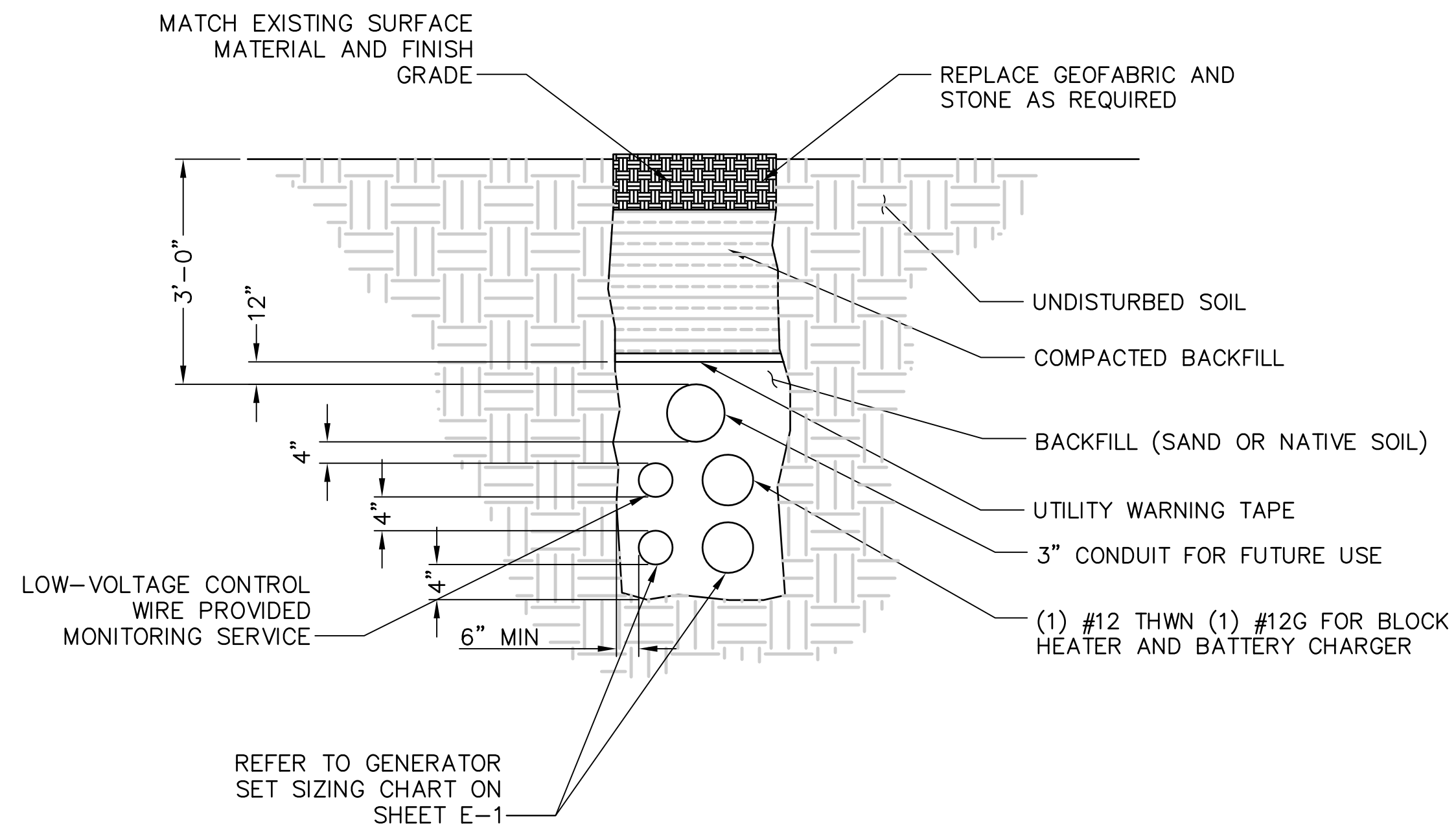


NOTE:
 GROUNDING PLAN SHOWN ABOVE TO BE APPLIED WHEN PROPOSED GENERATOR IS LOCATED MORE THAN 20 FT. FROM AN EXISTING AT&T SHELTER OR EQUIPMENT PAD. FOR ACTUAL ORIENTATION OF PROPOSED GENERATOR WITH THE EXISTING AT&T SHELTER OR EQUIPMENT PAD SEE SITE PLAN DRAWING.

GENERATOR GROUNDING PLAN 3
 SCALE: NOT TO SCALE 6-1



GENERATOR ELEVATION 1
 SCALE: NOT TO SCALE 6-1



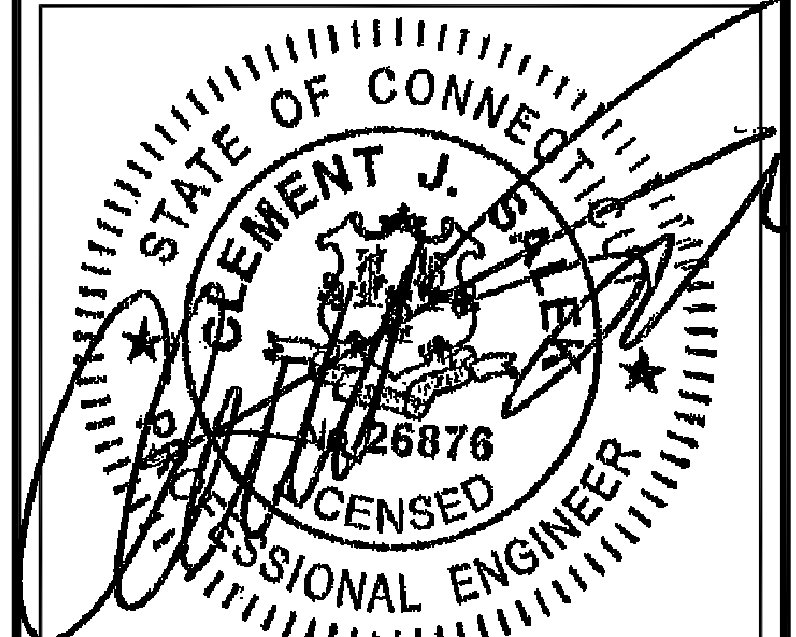
TRENCH DETAIL 2
 SCALE: NOT TO SCALE 6-1

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| GEA JOB NUMBER: 1337.008 | |

DRAWING TITLE:
 GROUNDING & TRENCH DETAILS

| | |
|----------------------------|-----------------------|
| DRAWING NO.: G-1 | REVISION: 1 |
|----------------------------|-----------------------|