

Jacky Clifford

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**
350 HARTLAND BOULEVARD, EAST HARTLAND, CT 06027(FA#10105847)

Dear Ms. Bachman:

American Telephone and Telegraph Company ("AT&T") currently maintains a wireless telecommunications facility at the above referenced address. **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** East Hartland. A copy of this submission is also being sent to Kelvin H. Stott, 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,

Jacky Clifford 508.446.1047

On behalf of AT&T

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

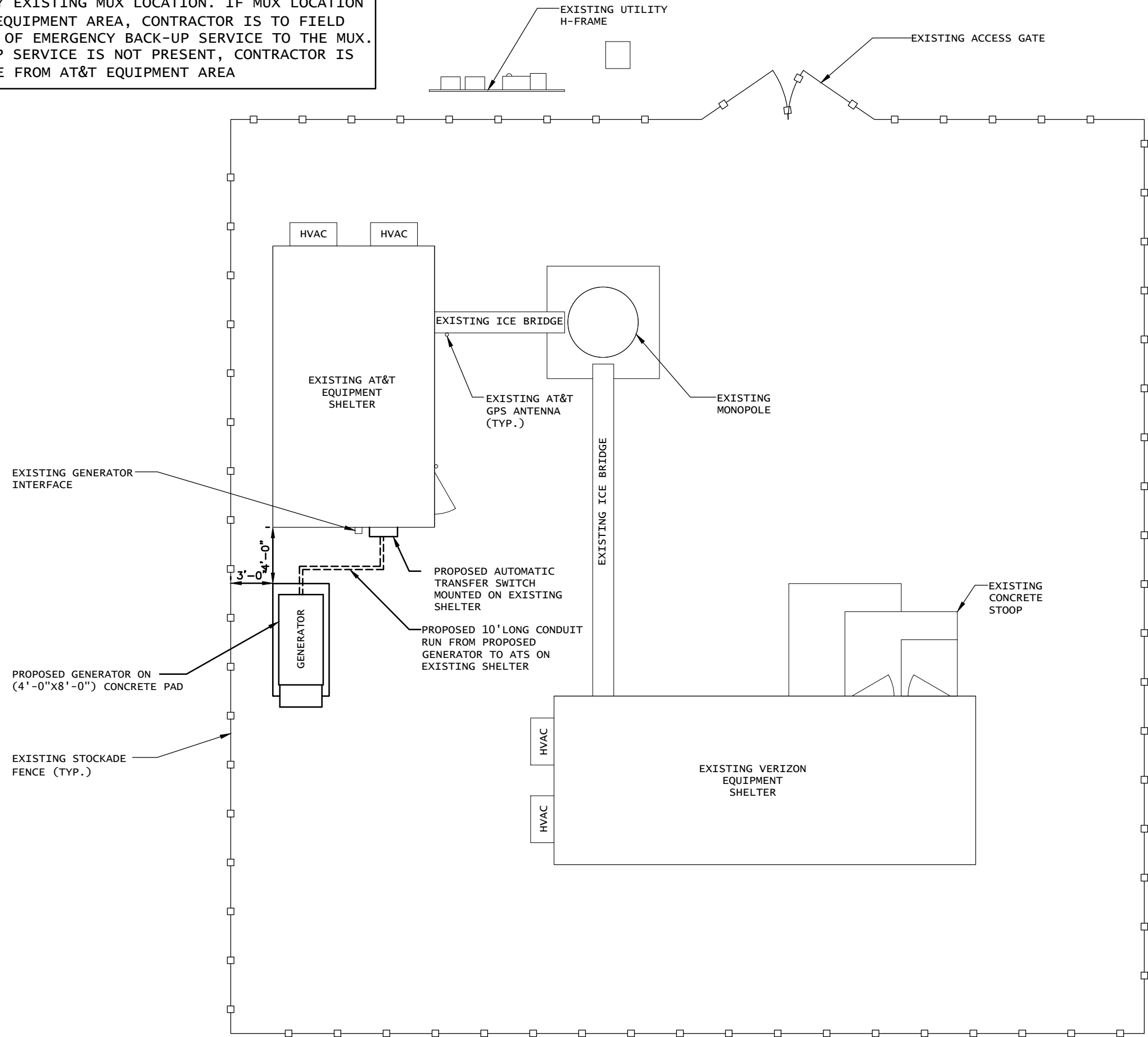
cc: **Town of East Hartland, CT**

cc: M. Jung
PO Box 658
Simsbury, CT 06070 – Property Owner

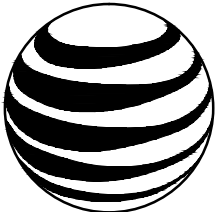
Exhibit 1

Site Plan

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 TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA



1 SITE PLAN
SCALE: 1/8" = 1'-0" (11"x17")
1/4" = 1'-0" (24"x36")



at&t

500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

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FAX: (978) 336-5586

SITE NUMBER:
10105847

SITE NAME:
HARTLAND-HARTLAND
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SITE ADDRESS:
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EAST HARTLAND, CT 06027



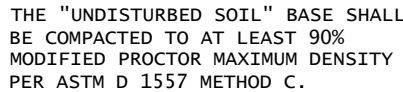
Daniel P. Hamm

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DRAWN BY:	KSR
CHECKED BY:	SB
DATE DRAWN:	1-28-14
JOB NO:	1167.01

SHEET TITLE:

SITE PLAN

SHEET NUMBER:	REV. #
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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.



PLAN VIEW

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 ACI W301, ACI W318, 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 NOTE 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.

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL, EXPOSE UNDISTURBED NATURAL SUB GRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEO TECHNICAL OR ENGINEER IS ACCEPTABLE.
3. 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.
4. 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.
5. 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.

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

HEAVY HEX NUT

FLAT WASHER

GENERATOR MOUNT PLATE

CONCRETE PAD

"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.

1/2"

3"

3 1/4" DEPTH (EMBEDMENT)

9/16" DIA.

DETAIL A

* FOR REFERENCE.
TO BE USED FOR
INSTALLATION OF KWIK
BOLT EXPANSION ANCHORS
FOR 50KW GENERATORS.

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 TO THE
MUX. IF EMERGENCY BACK-UP SERVICE IS NOT
PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE
FROM AT&T EQUIPMENT AREA



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DRAWN BY:	KSR
CHECKED BY:	SB
DATE DRAWN:	1-28-
JOB NO:	1167

SHEET TITLE:

CONCRETE PAD DETAIL

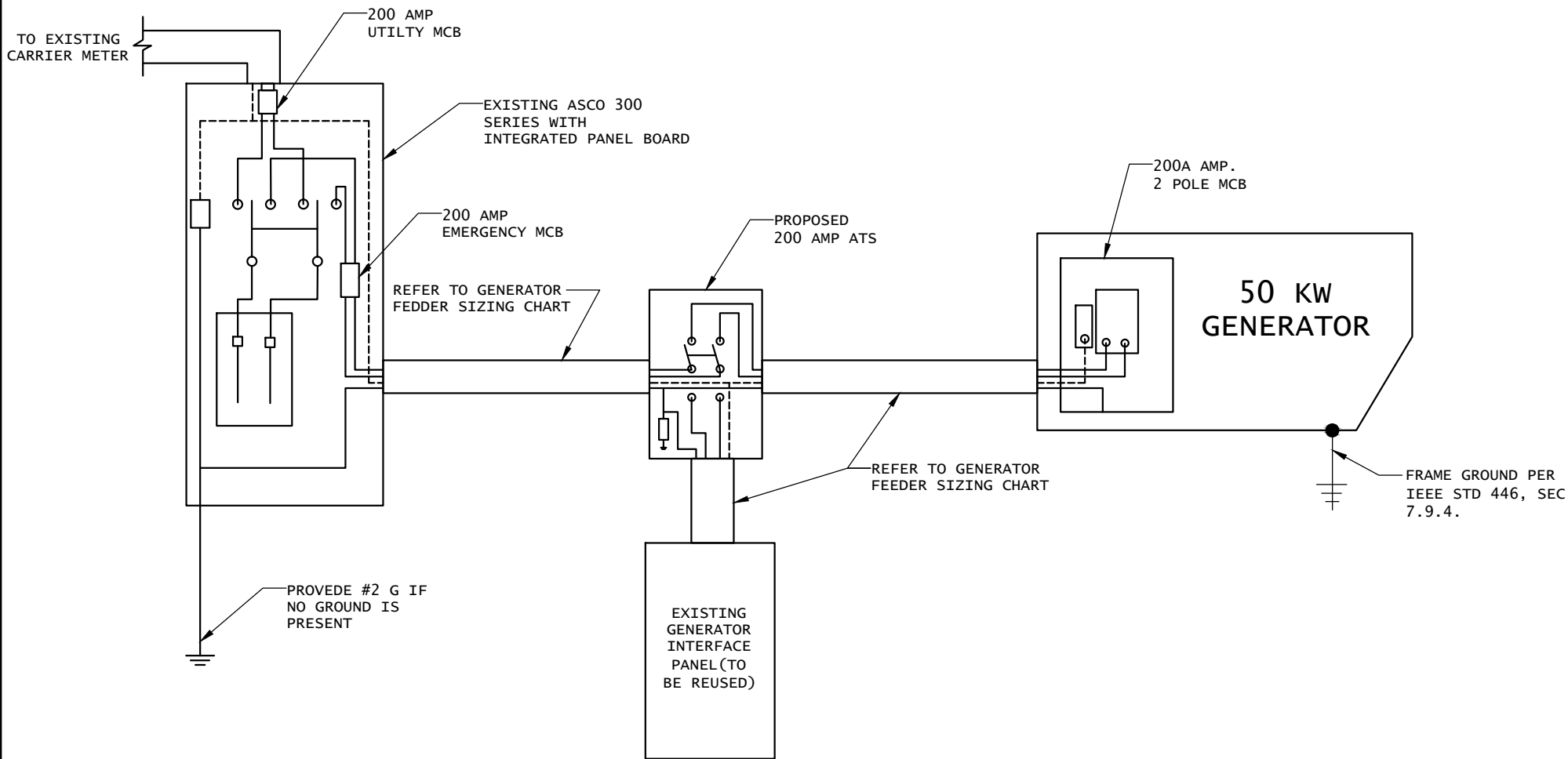
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8' X 4' POURED IN PLACE GENERATOR PAD



1 SINGLE CARRIER WIRING DIAGRAM
SCALE: NTS

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

NOTES:

- SERVICE VOLTAGE IS 120/240 1-PHASE, AND SERVICE SIZES ARE TYPICAL 220A.
- AUTOMATIC TRANSFER SWITCH (ATS) ARE 200A, 2-POLES, 120/240V 1-PHASE WITH SOLID NEUTRAL.
- ALL EXTERIOR 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.
- 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 MANUFACTURERS RECOMMENDED SIZE.

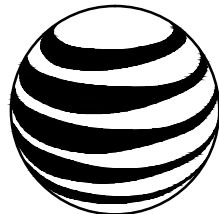
2 GENERATOR SET SIZING CHART
SCALE: NTS

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 GEN DURING CUSTOMER COLLOCATION ON TOWER.
- 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 THE 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).

NOTE:

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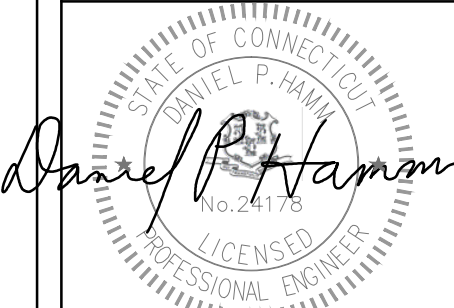
10105847

SITE NAME:

HARTLAND-HARTLAND
BOULEVARD

SITE ADDRESS:

350 HARTLAND BOULEVARD
EAST HARTLAND, CT 06027



Daniel P. Hamm

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DATE DRAWN: 1-28-14

JOB NO: 1167.01

SHEET TITLE:

WIRING
DIAGRAM
& H-FRAME
LAYOUT

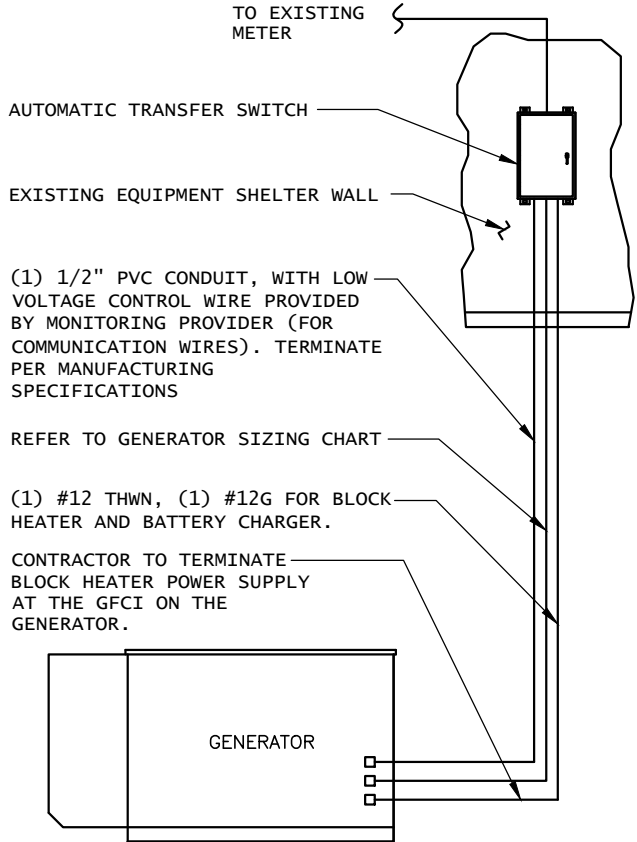
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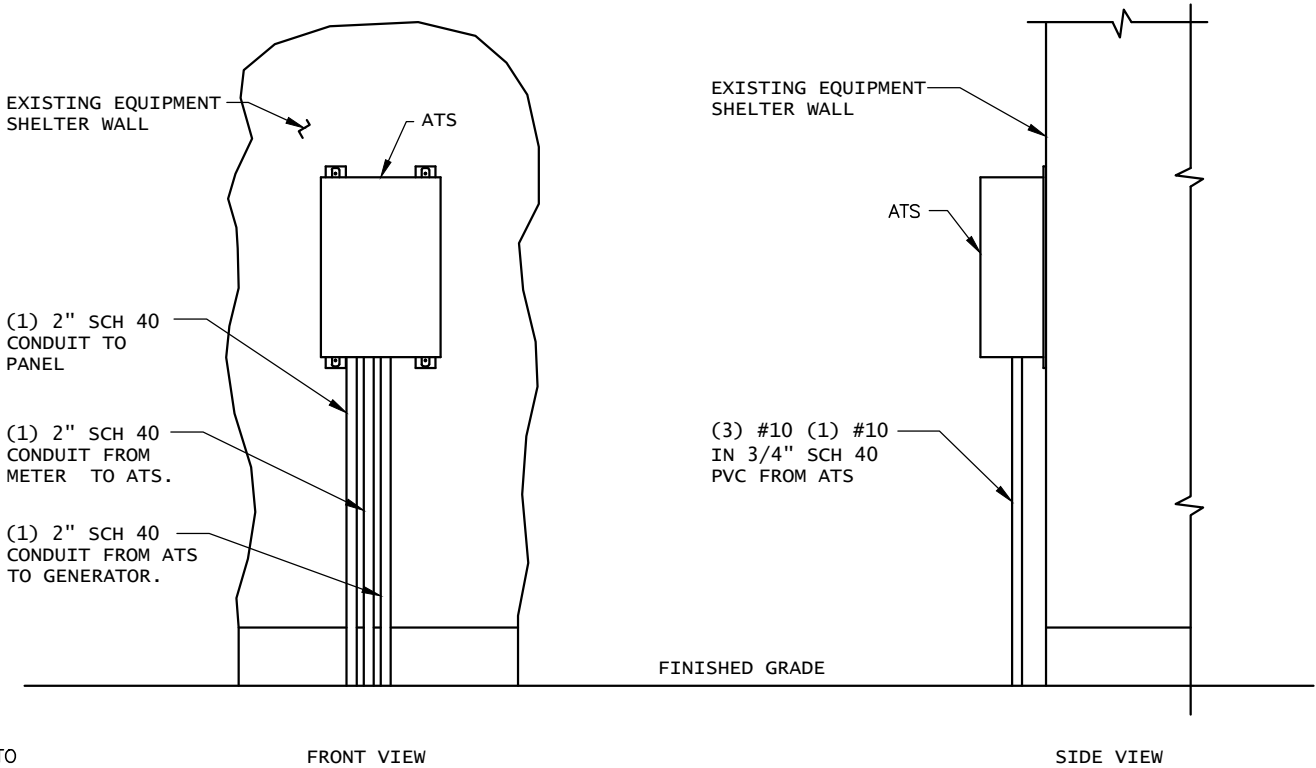
NOTE: UTILITY POWER FEEDS SHALL BE CONNECTED TO THE TRANSFER SWITCH FROM THE LOAD SIDE OF THE EXISTING SERVICE DISCONNECT. NO MODIFICATIONS SHALL BE MADE ON THE LINE SIDE OF THE EXISTING SERVICE DISCONNECT.



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
SCALE: NTS

NOTE:
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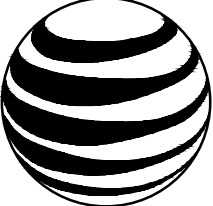
2 AUTOMATIC TRANSFER SWITCH LAYOUT
SCALE: NOT TO SCALE

SITE GENERATOR CONTROL & ALARMS RECEPACLE

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 RECEPACLE 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 -	"CLOSE" = ENGINE START (NO)
	#16 AWG 1062-20-0122	2		#16 AWG	WHITE		
(ALARM) GENERATOR RUNNING	#22 AWG 0462-201-20141	3	(10 Conductor) 8456 BELDEN	#22 AWG	BLACK	SITE EXTERNAL ALARM BLOCK (GENERATOR RUNNING-MAJOR)	"CLOSE" = ALARM (NO)
	#22 AWG 0462-201-20141	4		#22 AWG	WHITE		
(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		
(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		
(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		
(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		
NA	WM-12S	RECEPACLE WEDGE LOCK	NA	NA	NA	NA	NA

SITE GENERATOR CONTROL & ALARMS PLUG (GENERATOR MISSING BYPASS WHEN GENERATOR NOT IN USE - PREVENTS GENERATOR MISSING ALARM)



at&t

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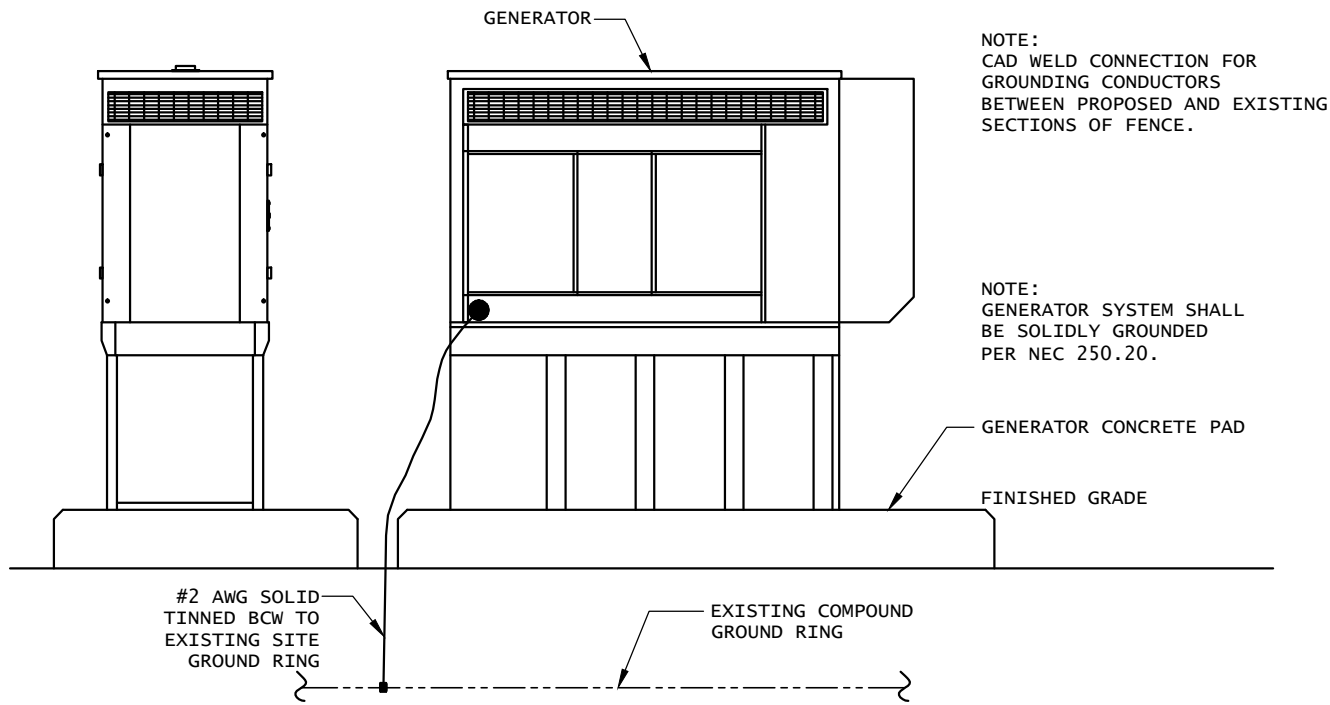
ELECTRICAL
DETAILS

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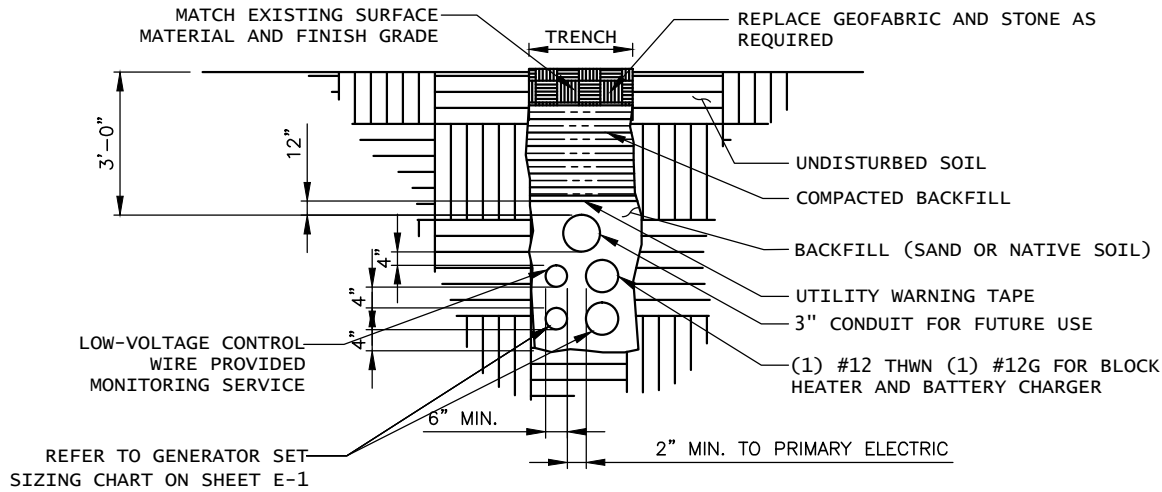
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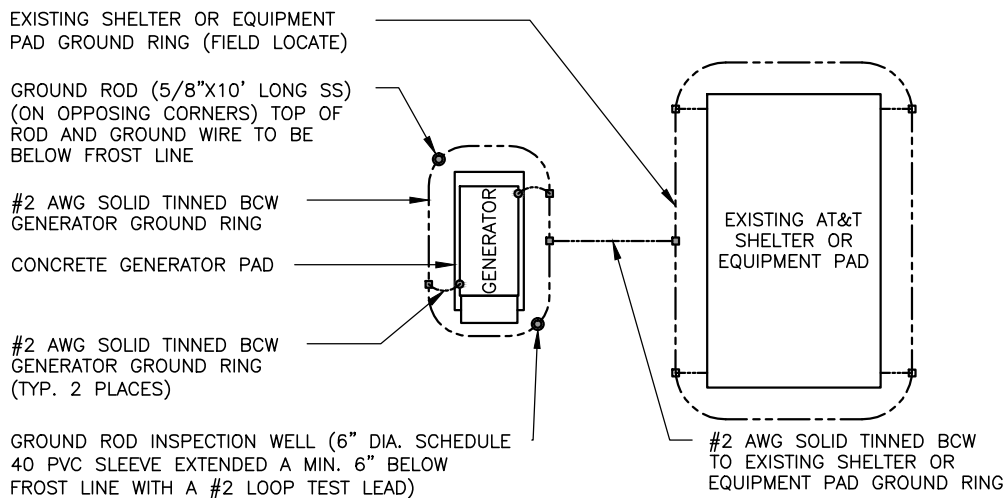
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1 GENERATOR ELEVATION
SCALE: NTS



2 TRENCH DETAIL
SCALE: NTS



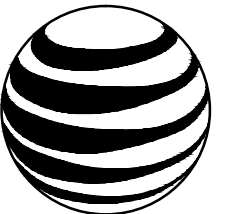
NOTE:
GROUNDING PLAN SHOWN ABOVE TO BE APPLIED WHEN PROPOSED GENERATOR IS LOCATED MORE THAN 20 FT. FROM AN EXISTING AT&T SHELTER OR EQUIPMENT PAD. FOR ACTUAL ORIENTATION OF PROPOSED GENERATOR WITH THE EXISTING AT&T SHELTER OR EQUIPMENT PAD SEE SITE PLAN DRAWING.

3 GENERATOR GROUNDING PLAN
SCALE: NTS

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

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- NOTES:
1. ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE NOT POSSIBLE.
 2. 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.
 3. ALL LIGHTNING GROUNDING SHALL BE FREE OF KINKS AND SHALL HAVE LONG RADIUS BENDS (MINIMUM 8").
 4. ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
 5. USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING (2) FENCE POSTS AND CADWELD FROM GENERATOR GROUND RING
 6. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2" 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.



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