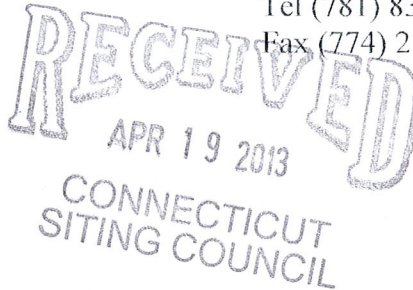


16 Chestnut Street, Suite 220
Foxboro, MA 02035
Tel (781) 831-1281
Fax (774) 215-5423

ORIGINAL



Linda Roberts
Executive Director
Connecticut Siting Counsel
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification - Shared Emergency Backup Generator
1069 Connecticut Ave, Bridgeport, CT 06607**

Dear Ms. Roberts:

American Tower Corporation ("ATC") currently maintains a wireless telecommunications facility at the above referenced address. ATC's tower and ground facilities are host to multiple tenants which are exiting within a lease area maintained by ATC. ATC does not currently maintain a generator at this cell site.

In an effort to further enhance multiple tenants' network reliability, ATC intends to modify its facility by installing a new diesel-fueled generator outside in a designated 8'x14' 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. (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 Bridgeport. A copy of this submission is also being sent to Westrock Development, LLC., the property owner on which the tower is located.

ATCs' Proposed Wireless Modifications Constitutes An "Exempt Modification"

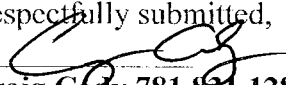
The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for in R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 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 therefor, 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 Tower Corporation 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,



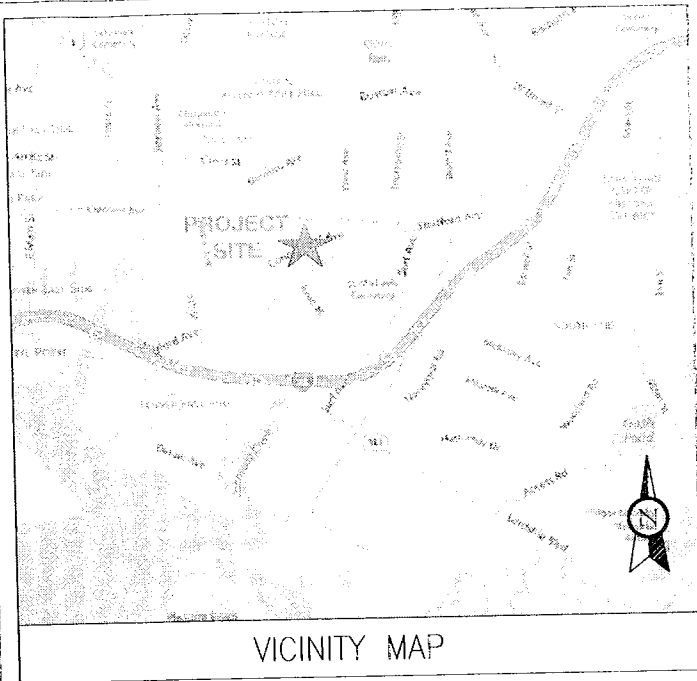
Craig Cody 781.831.1281

On behalf of American Tower Corporation
c/o Tower Resource Management, Inc.
16 Chestnut Street, Suite 220
Foxboro, MA 02035

cc: **Town of Bridgeport, CT**
Westrock Development, LLC.

Exhibit I

Site Plan



VICINITY MAP



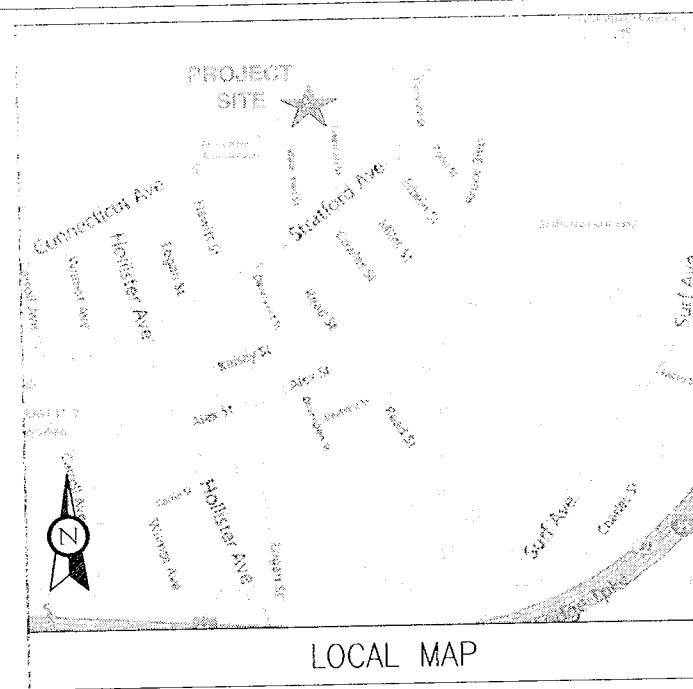
BACKUP POWER PROJECT

ATC SITE IDENTIFICATION:

SITE NUMBER: 302469

SITE NAME: BRIDGEPORT CT 2

SITE ADDRESS: 1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607



LOCAL MAP

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

TRM
Convergent Network Solutions
TOWER RESOURCE MANAGEMENT
16 CHELSEA STREET, SUITE 220
FOXBORO, MA 02035
WWW.TRMCOM.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYSE AMT

ATC SITE NUMBER:
302469

ATC SITE NAME:
BRIDGEPORT CT 2

SITE ADDRESS:
1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT. ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

STAMP HERE:

DRAWN BY:	JTG
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469
SHEET TITLE: TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION	
SHEET NUMBER:	REV. #
T-1	0



Know what's below.
Call before you dig.

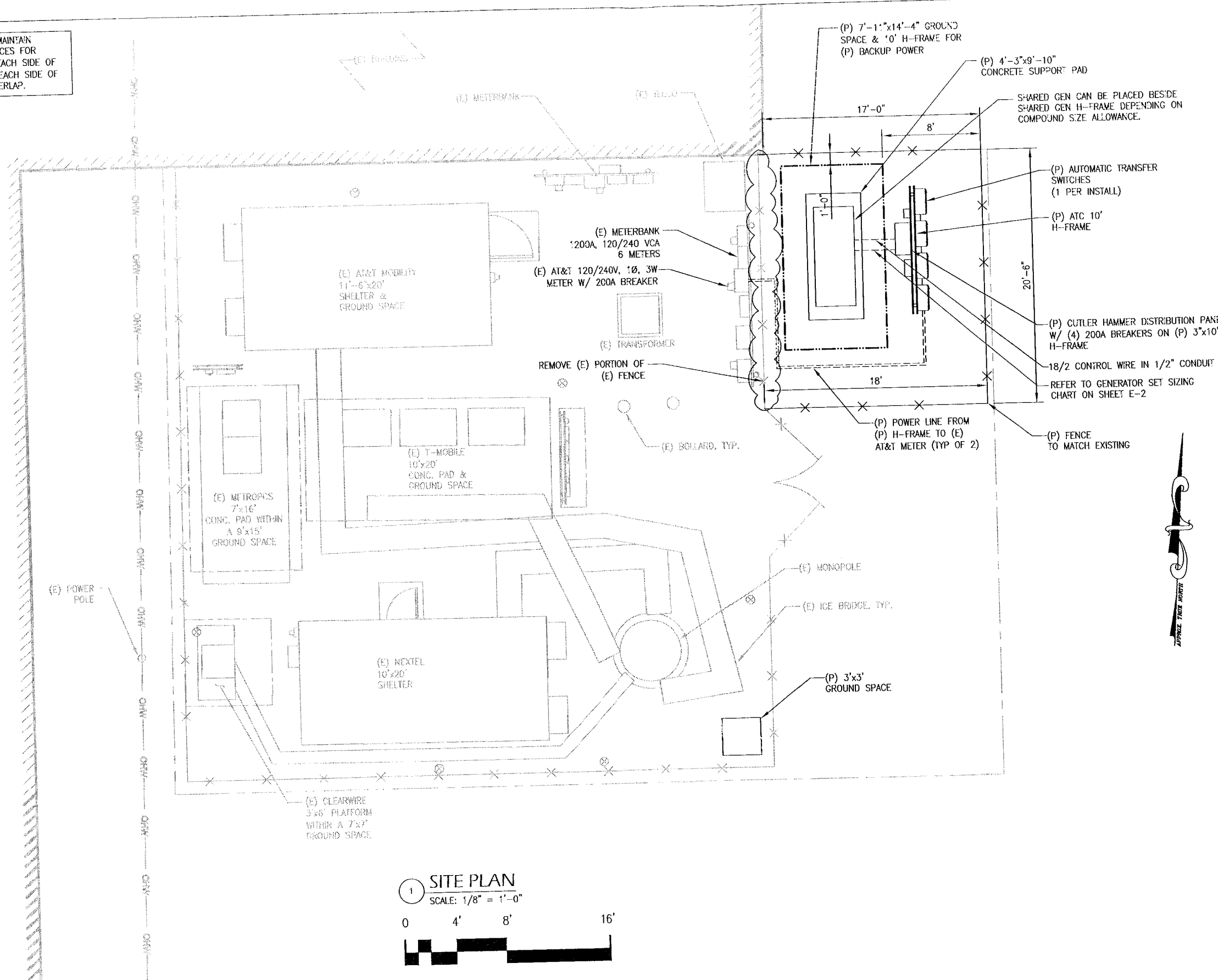
THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

PROJECT DESCRIPTION:

THE PROPOSED PROJECT INCLUDES PLACING AN 80 KW SHARED GENERATOR IN AN EXISTING CELLULAR TOWER COMPOUND.

PROJECT TEAM	PROJECT SUMMARY	PROJECT NOTES	SHEET INDEX				
			SHT NO:	DESCRIPTION:	REV:	DATE:	BY:
ENGINEER ADVANCED ENGINEERING GROUP, P.C. 500 NORTH BROADWAY EAST PROVIDENCE, RI 02914 TEL: 401-354-2403 LANDLORD: AMERICAN TOWERS, LLC. 10 PRESIDENTIAL WAY WOBURN, MA 01801 TEL: 781-926-4500 FAX: 781-926-4555	GEOGRAPHIC COORDINATES: LATITUDE: 41° 11' 1.02" N LONGITUDE: 73° 09' 30.18" W GROUND ELEVATION: 32 FT. CODE BLOCK: BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE 2005 CT STATE BUILDING CODE ELECTRICAL CODE: NEC 2011 LIGHTNING CODE: NEC 2011 ATC FIELD OPS TECH: SCOTT BLAKE TEL: 203-889-8566	<ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 	T-1	TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION	0	03-29-2013	JG
			A-1	SITE PLAN	0	03-29-2013	JG
			A-2	CONCRETE PAD DETAILS	0	03-29-2013	JG
			A-3	FENCE DETAILS	0	03-29-2013	JG
			E-1	WIRING DIAGRAM & H-FRAME LAYOUT	0	03-29-2013	JG
			E-2	ELECTRICAL DETAILS	0	03-29-2013	JG
			G-1	GROUNDING DETAILS	0	03-29-2013	JG
		PROJECT LOCATION DIRECTIONS DEPART PRESIDENTIAL WAY TOWARD ATLANTIC AVE. TURN LEFT ONTO ROAD. TAKE RAMP RIGHT FOR I-93 SOUTH TOWARD BOSTON. AT EXIT 37B, TAKE RAMP RIGHT FOR I-95 SOUTH TOWARD WALTHAM. AT EXIT 25, TAKE RAMP RIGHT FOR I-90 WEST TOWARD WORCESTER / MASS PIKE. TOLL ROAD. AT EXIT 9, TAKE RAMP RIGHT FOR I-84 TOWARD NEW YORK CITY / HARTFORD. STOP FOR TOLL BOOTH. ENTERING CONNECTICUT. 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. TAKE RAMP LEFT FOR I-95 SOUTH TOWARD N.Y. CITY. AT EXIT 31, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR SOUTH AVE. TURN RIGHT ONTO SOUTH AVE. BEAR LEFT ONTO STRATFORD AVE. CUTO ON THE CORNER. KEEP STRAIGHT ONTO CONNECTICUT AVE. ARRIVE AT 1069 CONNECTICUT AVE, BRIDGEPORT, CT 06610		GENERATOR ASSEMBLY AND INSTALLATION SUPPLEMENT			

ELECTRICAL CONTRACTOR SHALL MAINTAIN FACTORY RECOMMENDED CLEARANCES FOR GENERATOR, OR 48" CLEAR ON EACH SIDE OF GENERATOR AND 36" CLEAR ON EACH SIDE OF H-FRAME. CLEARANCES MAY OVERLAP.



1 SITE PLAN
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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

TRM
Convergent Network Solutions
TOWER RESOURCE MANAGEMENT
16 CHELSEA STREET, SUITE 220
FOXBORO, MA 02035
WWW.IRMC.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYSE: AMT

ATC SITE NUMBER:
302469

ATC SITE NAME:
BRIDGEPORT CT 2

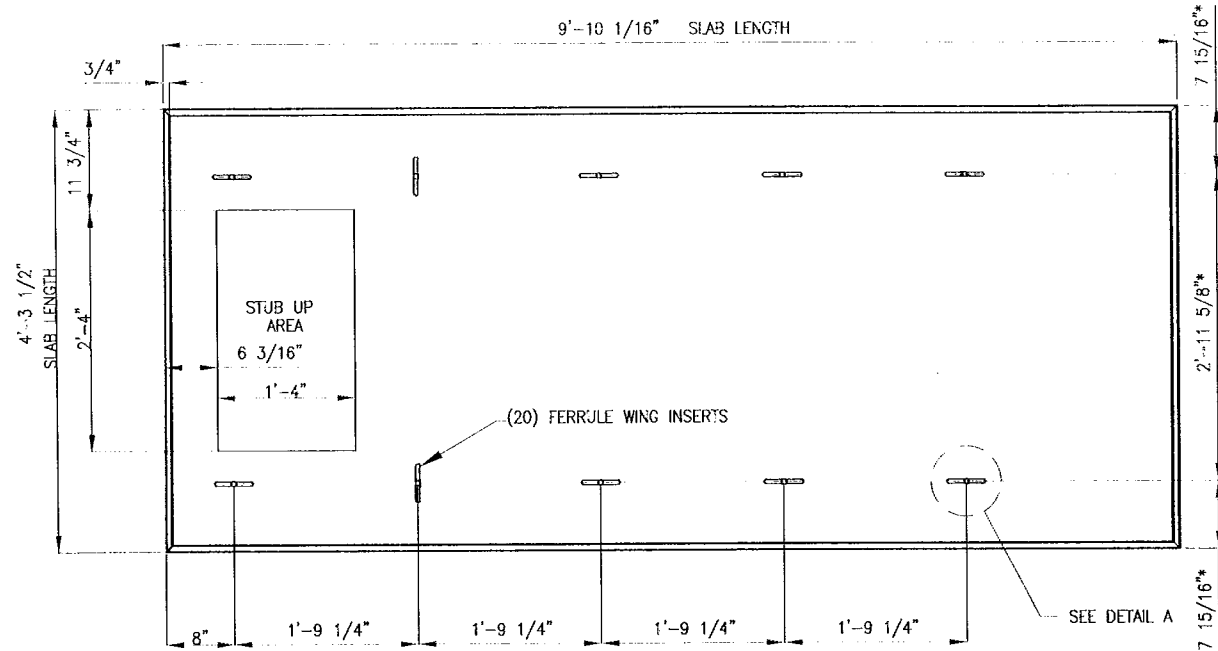
SITE ADDRESS:
1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND REPRODUCTION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

STAMP HERE:

DRAWN BY:	JTG
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469

SHEET TITLE: SITE PLAN	
SHEET NUMBER: A-1	REV. # 0

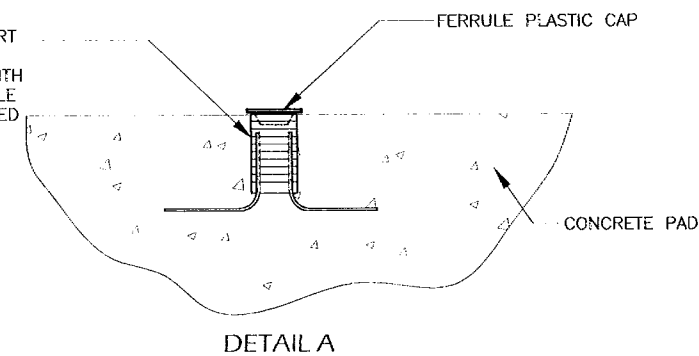


PLAN VIEW

QTY REQ'D.	SIZE	TOTAL LENGTH	TOTAL WEIGHT (.LBS)	TYPE	DIMENSION	BENDING DIAGRAM
10	1/2"	0'-5"	---	FERRULE WING		
10	1/2"	FERRULE PLASTIC CAP	---			
6	#4	9'-7 9/16"	39	STRAIGHT	A=9'-7 9/16"	
22	#4	4'-1"	60		A=4'-1"	
4	#4	7'-9 3/8"	21		A=7'-9 3/8"	
6	#4	9 1/4"	3		A=9 1/4"	

STANDARD REBAR SIZES & WEIGHTS			
BAR NO	LBS PER FT.	DIA. INCHES	GRADE
4	.6676	.500	60

FERRULE WING INSERT NOTE:
TO BE INSTALLED WITH THE TOP OF FERRULE WING INSERT FLUSH WITH THE TOP OF CONCRETE.



DETAIL A

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 1 1/4".
5. REINFORCING MATERIAL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A615-85.

CONCRETE PAD AND EMBEDMENT TOLERANCES

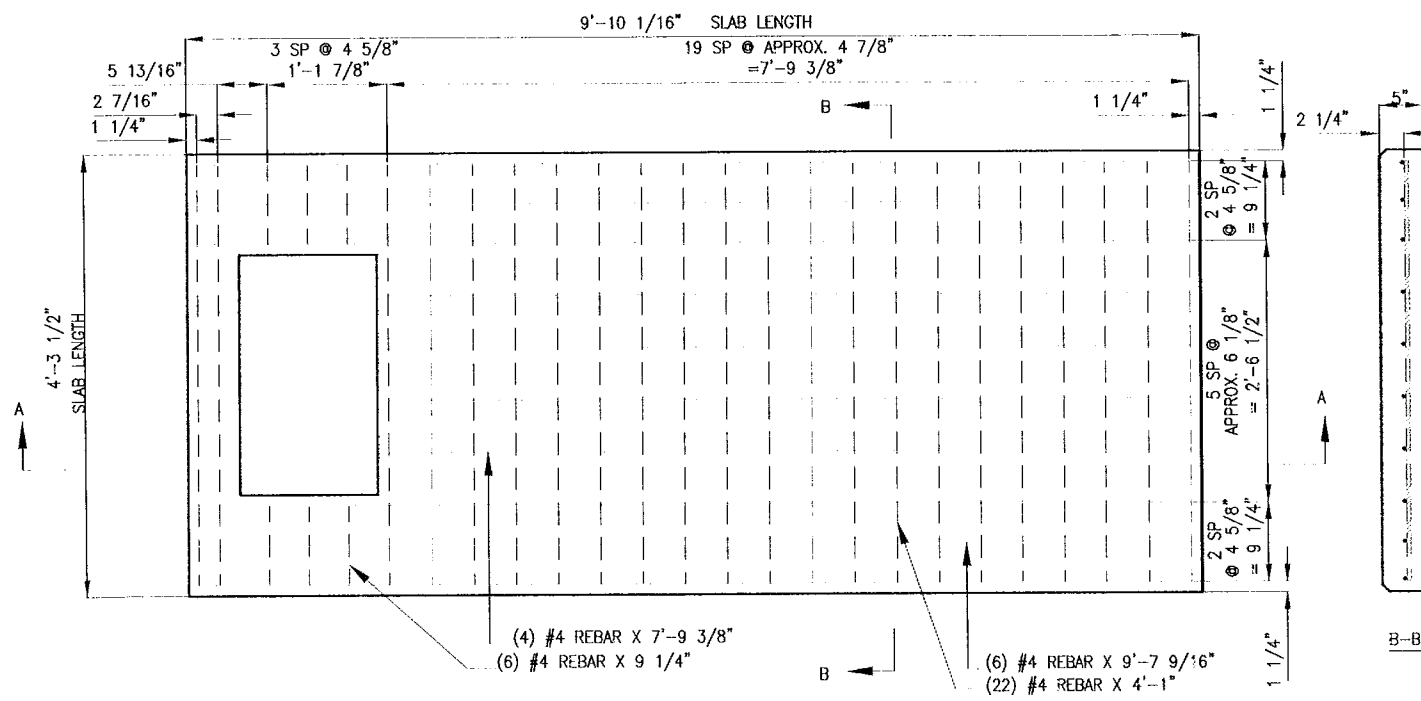
1. EMBEDMENTS: PLUS OR MINUS 1/16".
2. CONCRETE DIMENSIONS: PLUS OR MINUS 1/4".
3. REINFORCING STEEL PLACEMENT: PLUS OR MINUS 1/4" INCLUDING CONCRETE COVER.

NOTES

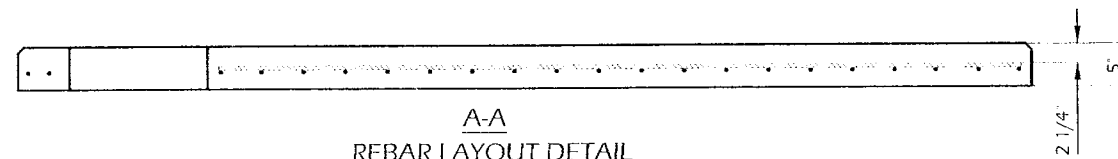
1. FOUNDATION WAS DESIGNED BY ASSUMING ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSI. THE SOIL BEARING CAPACITY FOR EACH SITE MUST BE VERIFIED USING THE SITE SPECIFIC GEOTECH REPORT. IF SHALLOW GROUNDWATER (< 3 FT.) WAS REPORTED, A FURTHER REVIEW OF THE DESIGN OR SPECIAL DESIGN MAY BE REQUIRED.
2. THE 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. PAD SHALL BE INSTALLED LEVEL TO WITHIN +/- 1/8".
3. CONCRETE SLUMPS: 1"~2".
4. CONCRETE VOLUME: 0.78 CUBIC YARDS.

DESIGN

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



TOP VIEW



A-A REBAR LAYOUT DETAIL

PRE-CAST GENERATOR PAD

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

TRM
Convergent Network Solutions
TOWER RESOURCE MANAGEMENT
16 CHILSTON STREET, SUITE 220
FOXBORO, MA 02035
WWW.TRMCOM.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYS: AMT

ATC SITE NUMBER:

302469

ATC SITE NAME:

BRIDGEPORT CT 2

SITE ADDRESS:

1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

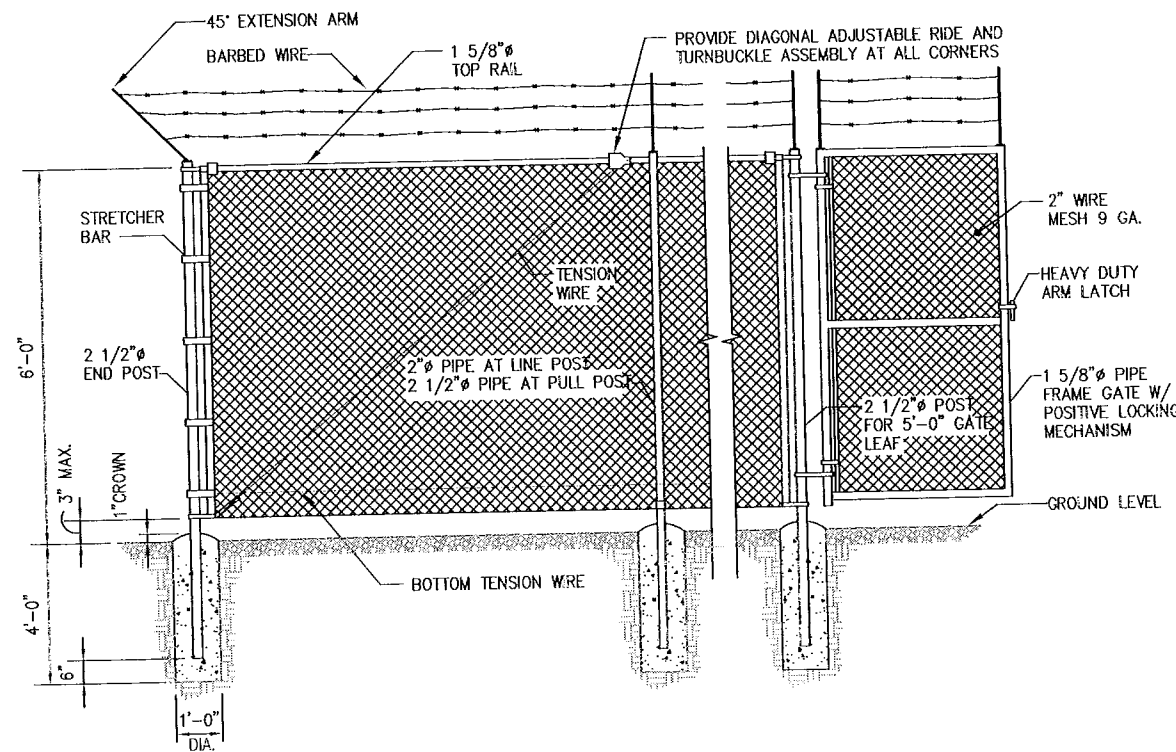
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT, ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

STAMP HERE:

DRAWN BY:	JTG
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469

SHEET TITLE:
CONCRETE PAD DETAILS

SHEET NUMBER:	REV. #
A-2	0



FENCE NOTES:

1. INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
2. ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
3. FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
4. TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
5. THE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS.
6. BARBED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
7. COMPLY WITH LOCAL ORDINANCES OF BARBED WIRE PERMIT REQUIREMENTS, IF REQUIRED.
8. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAF. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
9. SCREENING SLATS SHALL BE INSTALLED ON PROPOSED FENCING (COLOR: GREEN OR AS DET'S BY PROJECT OWNER)

1 SITE PLAN
SCALE: N.T.S.

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

TRM
Convergent Network Solutions
TOWER RESOURCE MANAGEMENT
16 CHESTNUT STREET, SUITE 220
FOXBORO, MA 02835
WWW.TRMGOM.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYSE: AMT

ATC SITE NUMBER:

302469

ATC SITE NAME:

BRIDGEPORT CT 2

SITE ADDRESS:

1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

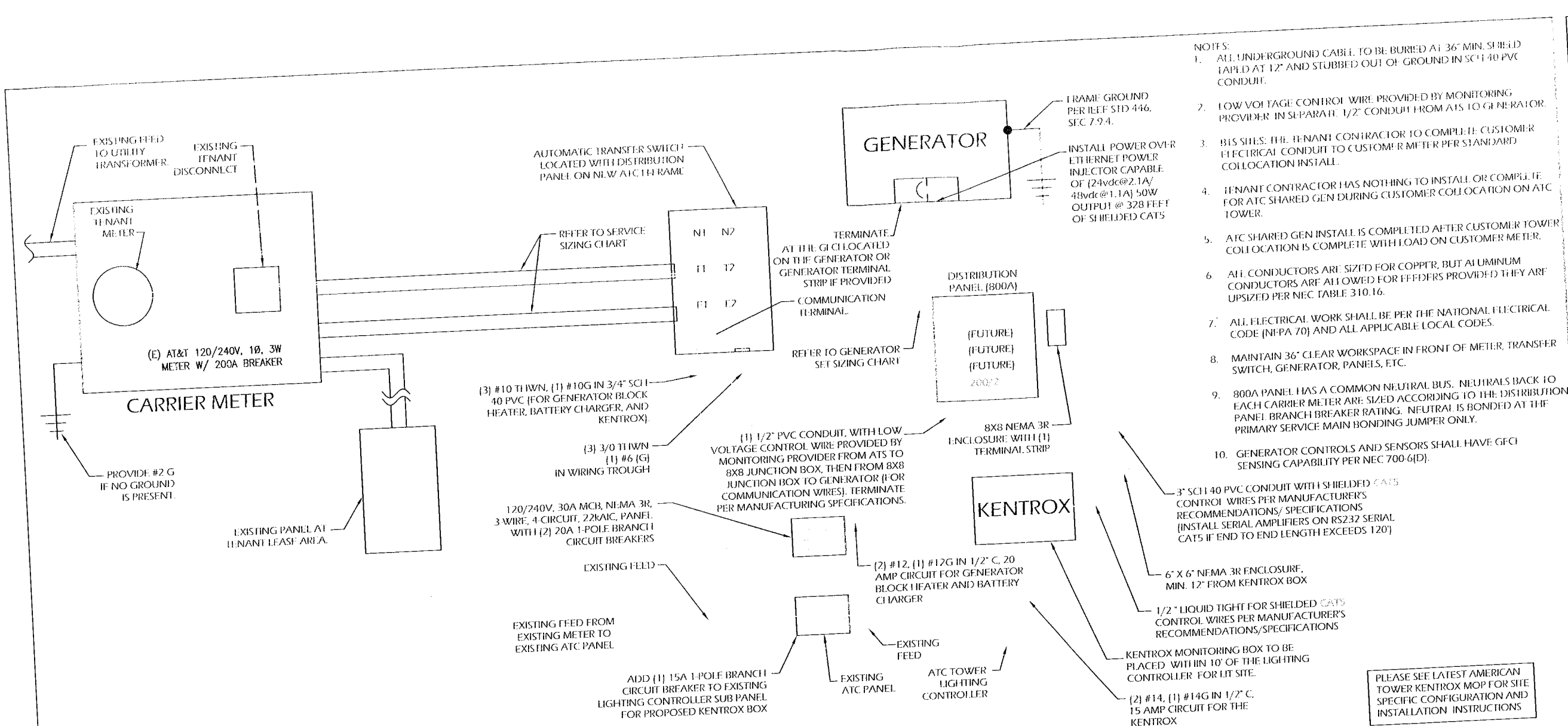
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT. ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

STAMP HERE:

DRAWN BY:	JTG
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469

SHEET TITLE:
FENCE
DETAILS

SHEET NUMBER:	REV. #
A-2	0



- NOTES:
1. ALL UNDERGROUND CABLE TO BE BURIED AT 36" MIN. SHIELDED 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. BUS 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).

1 SINGLE CARRIER WIRING DIAGRAM
SCALE: NOT TO SCALE

UTILITY SERVICE	FEEDER SIZES FROM UTILITY TO ATS
200A 1-PH	3#3/0, 1#6G, IN 2" C

NOTE:
DISCONNECT POWER FEED FROM EXISTING METER TO EXISTING SHIELDED. ROUTE NEW FEEDERS (AS SIZED ON E1, DETAIL 1) 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 SHIELDED THROUGH EXISTING CONDUIT AND FEEDERS.

GEN SET SIZE	VOLTS - PHASE	PRIME RATING KW - AMPS	SIZE OF IN-LINE BREAKER (AT GENERATOR)	MAIN BREAKER SIZE SERVING ANCHOR TENANT:	FEEDER SIZES FROM GEN SET BREAKER TO DISTRIBUTION PANEL / ATS.
80KW	120/240V - 1 PH	72KW - 300A	400A	200A 2-P C/B INTEGRAL TO 800A 1-PH MLO DISTRIBUTION PANEL.	2 SETS OF: 3#3/0, 1#1/0G, IN (2) 3" 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 PROVIDED SHALL BE PROVIDED WITH EQUIPMENT RATED TO WITHSTAND FAULT CURRENT AVAILABLE AT PROJECT SITE.
 7. ALL WIRE AND PANEL BUSSING SHALL BE COPPER UNLESS OTHERWISE SPECIFIED 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. IN-LINE BREAKER AT GENERATOR IS FACTORY INSTALLED, AND IS THE MANUFACTURER'S RECOMMENDED SIZE.

2 GENERATOR SET SIZING CHARTS

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

TRM
Convergent Network Solutions
POWER RESOURCE MANAGEMENT
16 CHESTNUT STREET, SUITE 220
FOXBORO, MA 02035
WWW.IRMCOM.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYSE: AMT

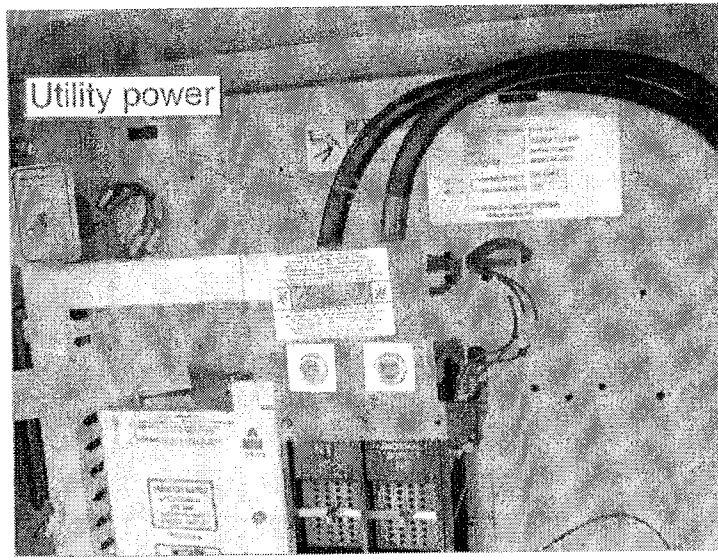
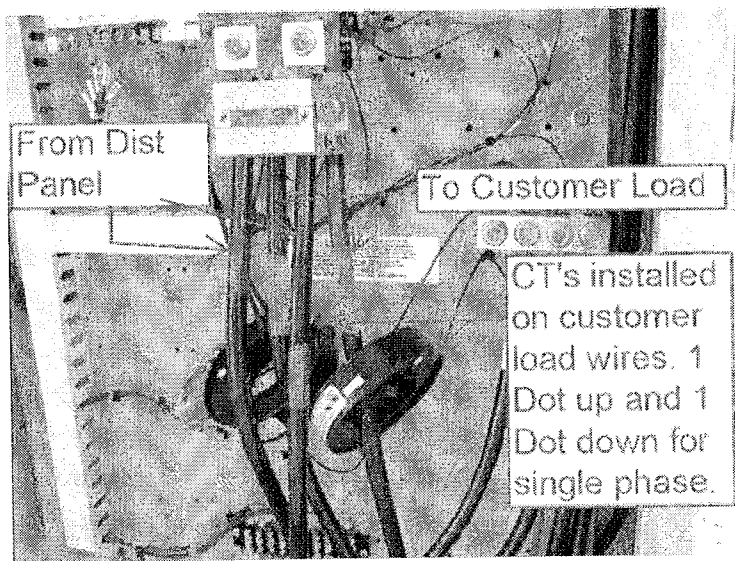
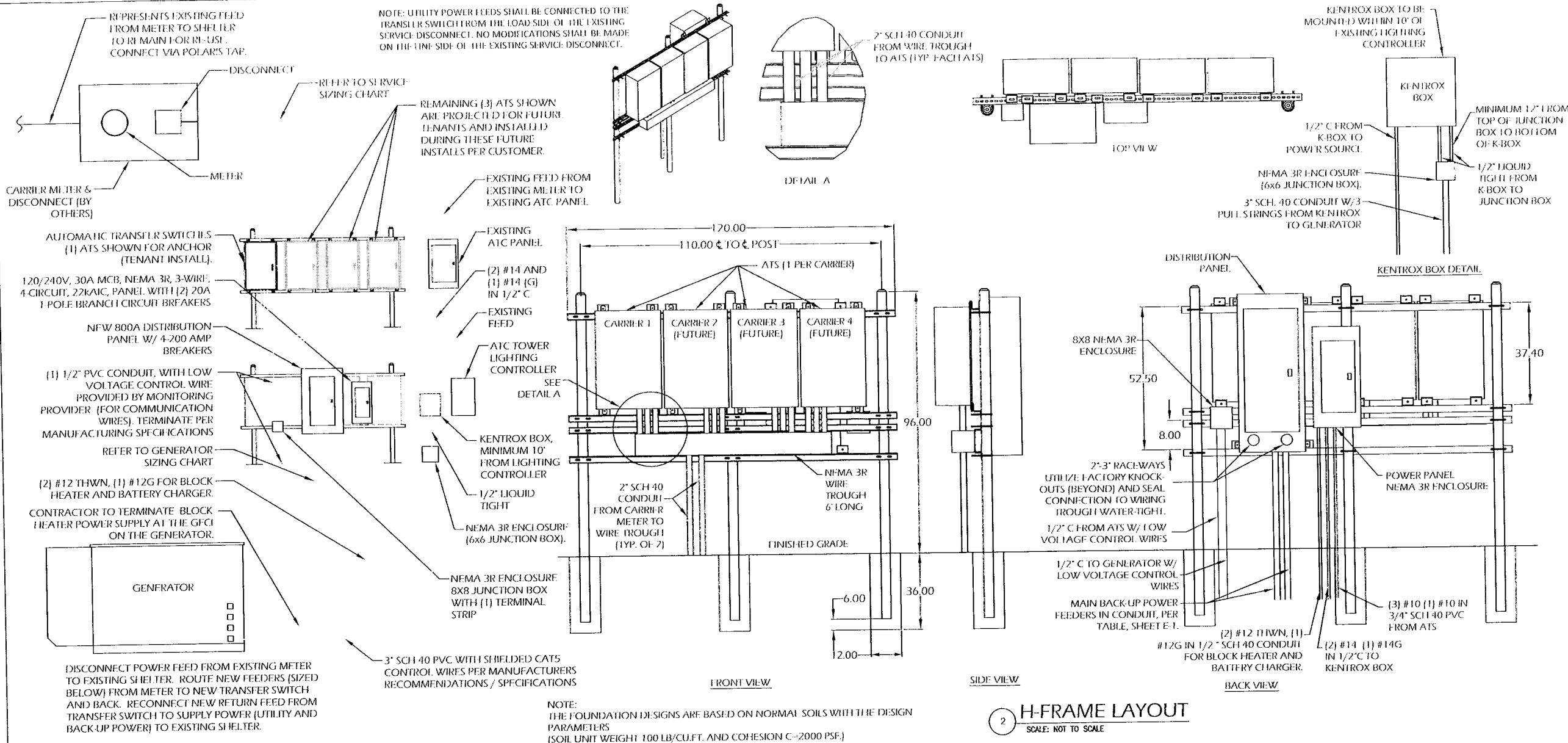
ATC SITE NUMBER:
302469
ATC SITE NAME:
BRIDGEPORT CT 2
SITE ADDRESS:
1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT. ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

PLEASE SEE LATEST AMERICAN TOWER KENTROX MOP FOR SITE SPECIFIC CONFIGURATION AND INSTALLATION INSTRUCTIONS

STAMP HERE:

DRAWN BY:	JTC
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469
SHEET TITLE:	WIRING DIAGRAM & H-FRAME LAYOUT
SHEET NUMBER:	E-1
REV. #	0



3 PHOTO REFERENCES FOR WIRE CONNECTIONS

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

TRM
Convergent Network Solutions
TOWTR RESOURCE MANAGEMENT
16 CHESTNUT STREET, SUITE 220
FOXBORO, MA 02035
WWW.TRMCOM.COM

AMERICAN TOWER
ATC TOWER SERVICES, INC.
8505 FREEPORT PARKWAY
SUITE 135
IRVING, TX 75063
PHONE: (972) 999-8900
FAX: (972) 999-8940
NYSE: AMT

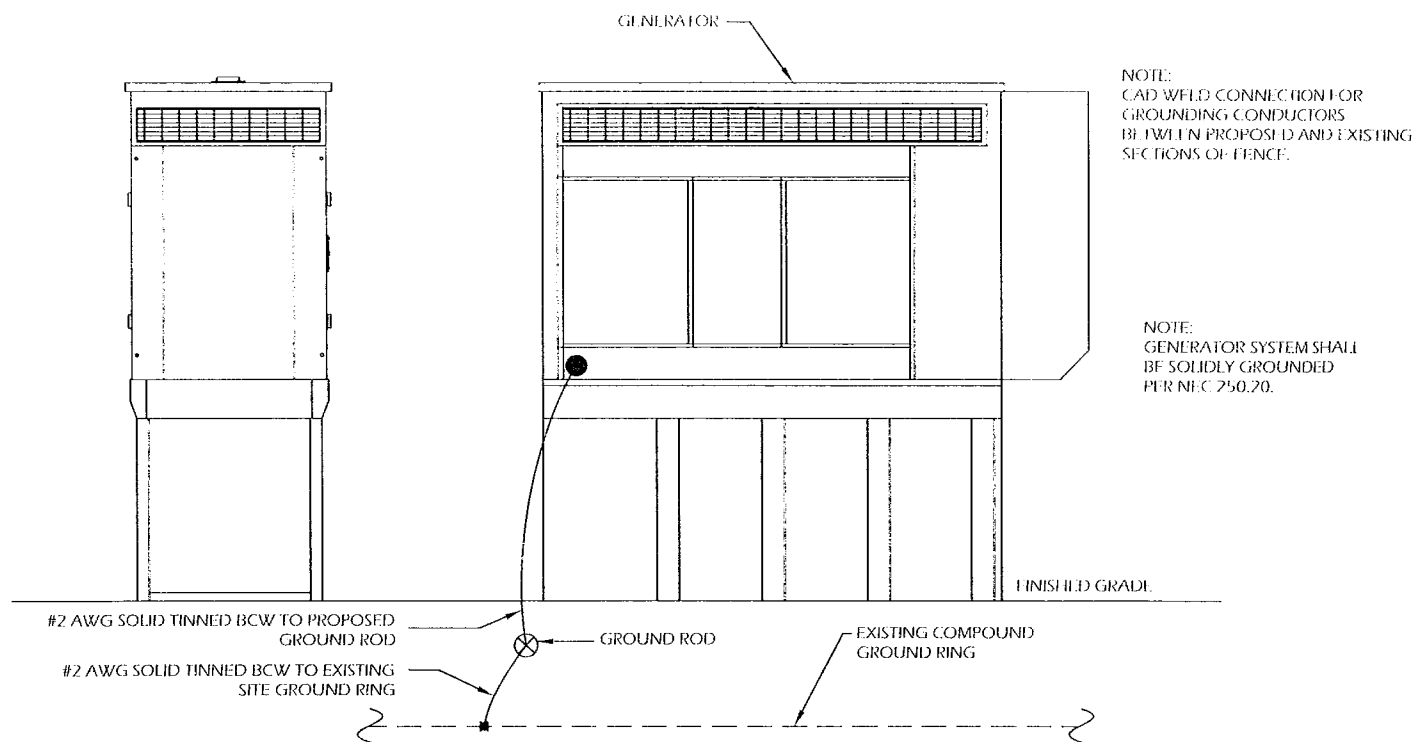
ATC SITE NUMBER:
302469

ATC SITE NAME:
BRIDGEPORT CT 2

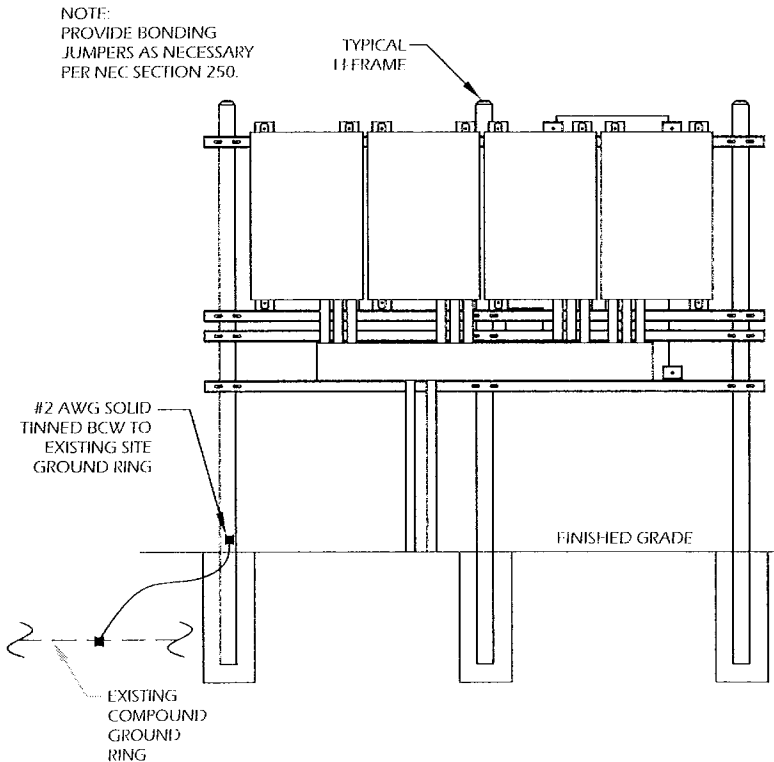
SITE ADDRESS:
1069 CONNECTICUT AVE
BRIDGEPORT, CT 06607

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS AND INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED. PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT. ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

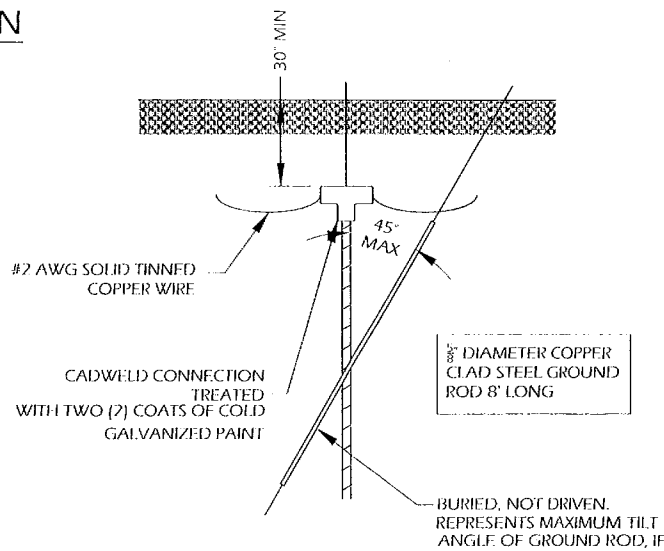
STAMP HERE:	
DRAWN BY:	JTC
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469
SHEET TITLE: ELECTRICAL DETAILS	
SHEET NUMBER: E-2	REV. # 0



1 GENERATOR ELEVATION

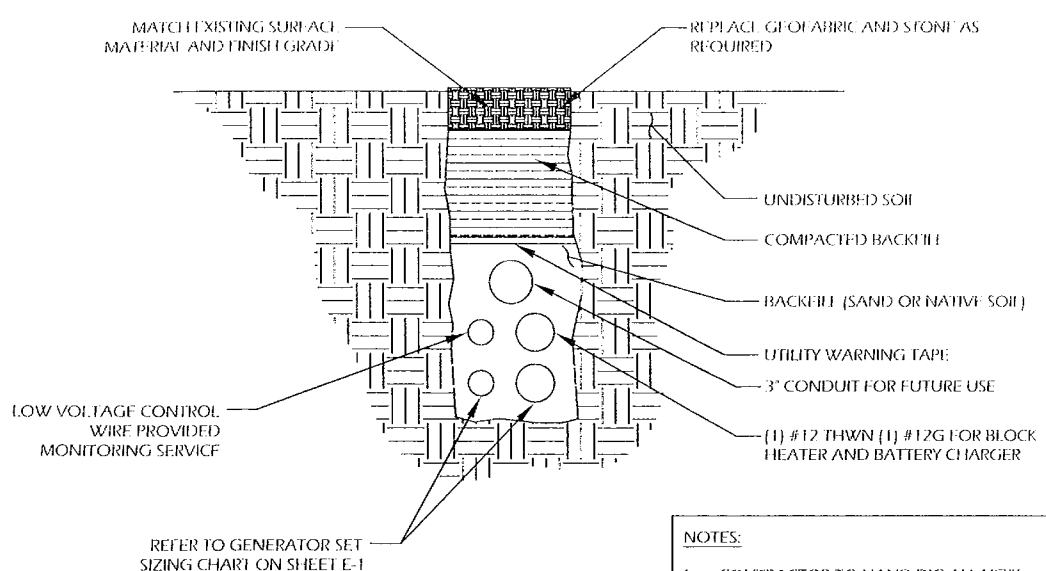


3 H-FRAME ELEVATION



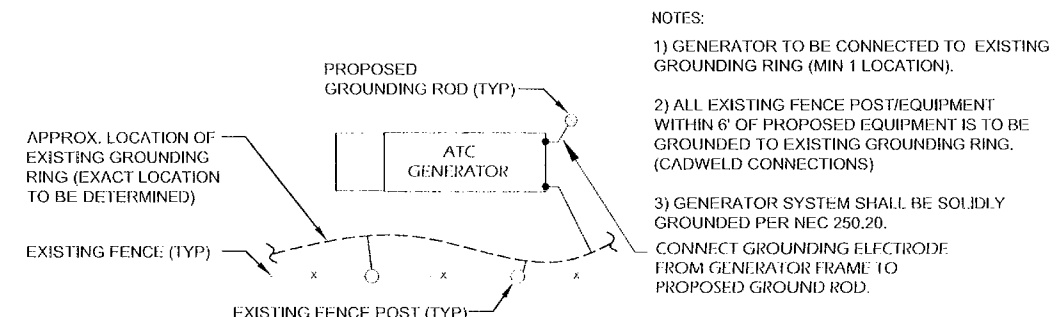
5 GROUND ROD DETAIL

- 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.



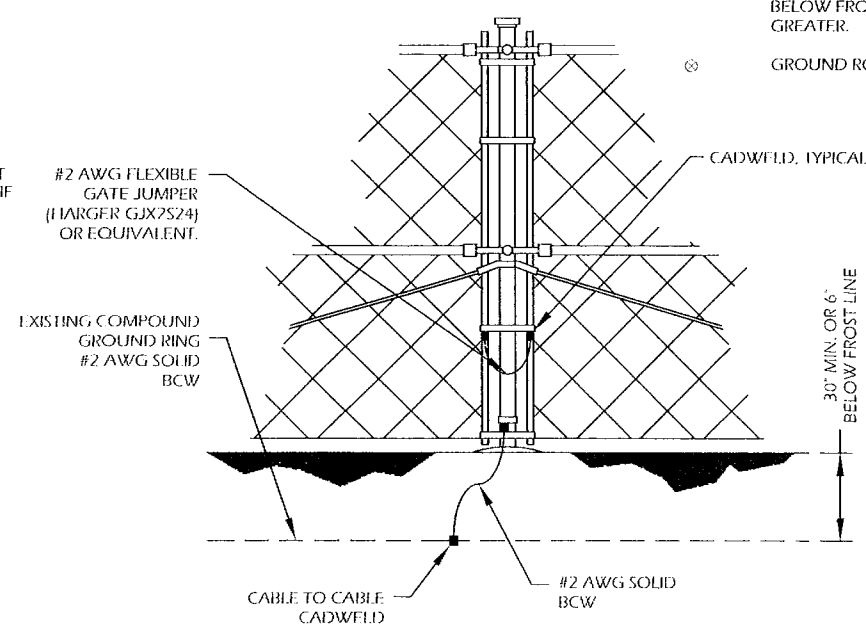
2 TRENCH DETAIL
SCALE: NOT TO SCALE

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



6 GENERATOR GROUND RING DETAIL

- GROUNDING SYMBOLS:
- #2 AWG SOLID TINNED COPPER GROUND CABLE RUN 30" BELOW GRADE OR 6" BELOW FROST LINE WHICHEVER IS GREATER.
 - ⊗ GROUND ROD



4 VERTICAL POST CONNECTED TO RING

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

TRM
 Convergent Network Solutions
 TOWER RESOURCE MANAGEMENT
 16 CHESTNUT STREET, SUITE 220
 FOXBORO, MA 02035
 WWW.TRMCOM.COM

AMERICAN TOWER*
ATC TOWER SERVICES, INC.
 8505 FREEPORT PARKWAY
 SUITE 135
 IRVING, TX 75063
 PHONE: (972) 999 8900
 FAX: (972) 999 8940
 NYSE: AMT

ATC SITE NUMBER:
302469

ATC SITE NAME:
BRIDGEPORT CT 2

SITE ADDRESS:
 1069 CONNECTICUT AVE
 BRIDGEPORT, CT 06607

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF ATC TOWER SERVICES, INC. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATC TOWER SERVICES, INC OR THE SPECIFIED CARRIER IS STRICTLY TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROHIBITED PROPERTY OF ATC TOWER SERVICES, INC WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE PROJECT, ATC TOWER SERVICES, INC OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH ATC TOWER SERVICES, INC.

STAMP HERE:

DRAWN BY:	JTG
CHECKED BY:	SNA
DATE DRAWN:	03-29-13
JOB NO:	302469

SHEET TITLE: GROUNDING DETAILS	
SHEET NUMBER: G-1	REV. # 0

GENERAC 80KW

GENERAL ASSEMBLY AND INSTALLATION SUPPLEMENT

100 - 400 Amps,
600 VAC HTS

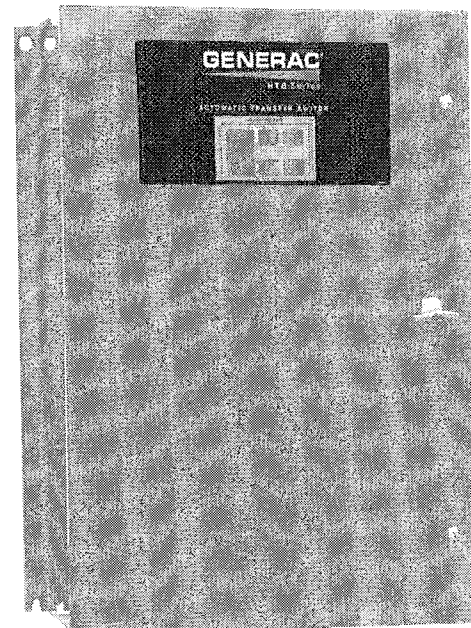
Automatic Transfer Switches

100 - 400 Amps, 600 VAC

100 - 400 Amps, 600 VAC

1 of 2

2 of 2



200 Amp HTS NEMA 1

Description

- The Generac HTS Transfer Switch is a "State of the Art" Smart Switch designed to operate in conjunction with the Generac H100 Series generator controller.
- The HTS Transfer Switch has a 2 wire RS485 communication link to the generator controller.
- The utility voltage is monitored by the HTS along with signal before transfer timing, time delay neutral and inphase transfer.
- Switch operation is instigated by the generator controller.
- All timers and voltage setpoints are programmable through GenLink® Communications Software.
- Time delay neutral and inphase monitor are included.

Standard Features

- Single coil design, electrically operated and mechanically held
- Programmable exercise time
- SPDT aux contacts
- Main contacts are silver alloy
- Conformal coating protects the printed circuit board
- UL1008 Listed
- Indicating LED's for switch position, standby operating, utility available

- 3 position test switch: Fast Test, Auto, Normal Test
- Arc shutes on main contacts
- Signal before transfer contacts
- Rated to all classes of loads
- Remote start, stop and transfer through GenLink® Communications Software
- Up to four transfer switches per generator
- 50/60 hertz operation

Optional Accessories

- NEMA 12 enclosure (100-400 Amps)
- NEMA 3R enclosure (All)

- NEMA 4 and 4x enclosure
- 4 pole for separately derived systems

Interconnections

HTS 100-400 Amp

Switches and Indicators:

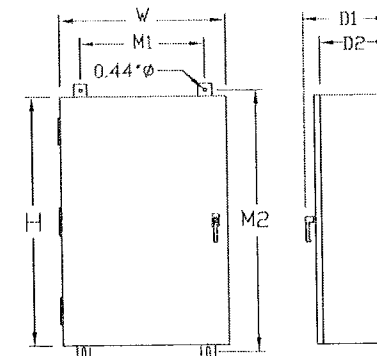
- System Ready LED
- Switch Position LED's
- Test Switch
- Return to Normal Switch
- Standby Operating LED
- Utility Available LED
- Fast Test Switch
- Safety Disconnect Switch

Standby Accept Voltage	85-95%
Standby Accept Frequency	85-95%
Nominal Voltage	1 Volt Increments
Allowable Deviation of Utility	1-100%
Line Interruption Delay	1-10 Seconds
Engine Warmup Time	1-300 Seconds
Minimum Run Time	5-60 Minutes
Return to Utility Timer	1-30 Minutes
Engine Cooldown Timer	1-30 Minutes
Signal Before Transfer Timer	1-30 Seconds
Transfer Type	Inphase Time Delay Neutral
Phase Difference for Inphase Transfer	-7 +0 Degrees

Withstand Current - 600 Volt HTS Series

HTS RATED AMPS	100	150	200	300	400
FUSE PROTECTED					
Maximum RMS Symmetrical Fault Current - Amps	200,000	200,000	200,000	200,000	200,000
Maximum Fuse Size - Amps	200	400	400	600	600
Fuse Class	J,T	J,T	J,T	J,T	J,T
CIRCUIT BREAKER PROTECTED					
Maximum RMS Symmetrical Fault Current - Amps	14,000	25,000	25,000	35,000	35,000
Protective Device Continuous Rating (Max.) - Amps	150	300	300	600	600

- Tested in accordance with the withstand and closing requirements of UL 1008 and CSA Standards.
- Current ratings are listed @ 480 VAC.



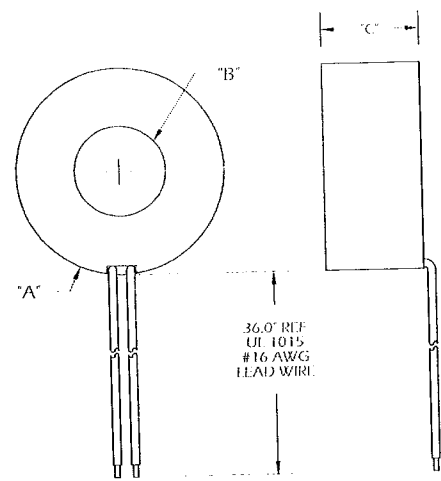
Unit Dimensions

HTS RATED AMPS	VOLTAGE	ENCLOSURE HEIGHT H	ENCLOSURE WIDTH W	WALL MOUNT BOLT PATTERN		ENCLOSURE DEPTH		WEIGHT (lbs.)
				M1	M2	D1	D2	
100	ALL	36	24	18	37.5	12.7	10	180
150-200	120/240	36	24	18	37.5	12.7	10	185
150-200	120/208	36	24	18	37.5	12.7	10	185
150-200	277/480	48*	30*	24	49.5	14.8	12	265
300-400	120/240	36	24	18	37.5	12.7	10	245
300-400	120/208	36	24	18	37.5	12.7	10	245
300-400	277/480	48*	30*	24	49.5	14.8	12	325

Terminal Lug Wire Ranges

HTS RATED AMPS	CONTACTOR TERMINALS (1 LUG PER POLE) LUG WIRE RANGE	NEUTRAL BAR*		GROUND LUG (1 PROVIDED) LUG WIRE RANGE
		# LUGS	LUG WIRE RANGE	
100	2/0 - 14 AWG	4	2/0 - 14 AWG	2/0 - 14 AWG
150	400MCM - 4 AWG	4	350MCM - 6 AWG	350MCM - 6 AWG
200	400MCM - 4 AWG	4	350MCM - 6 AWG	350MCM - 6 AWG
300	600MCM - 4 AWG or 2 - [250MCM - 1/0 AWG]	4	600MCM - 4 AWG [250MCM - 1/0 AWG]**	350MCM - 6 AWG 350MCM - 6 AWG
400	600MCM - 4 AWG or 2 - [250MCM - 1/0 AWG]	4	600MCM - 4 AWG [250MCM - 1/0 AWG]**	350MCM - 6 AWG

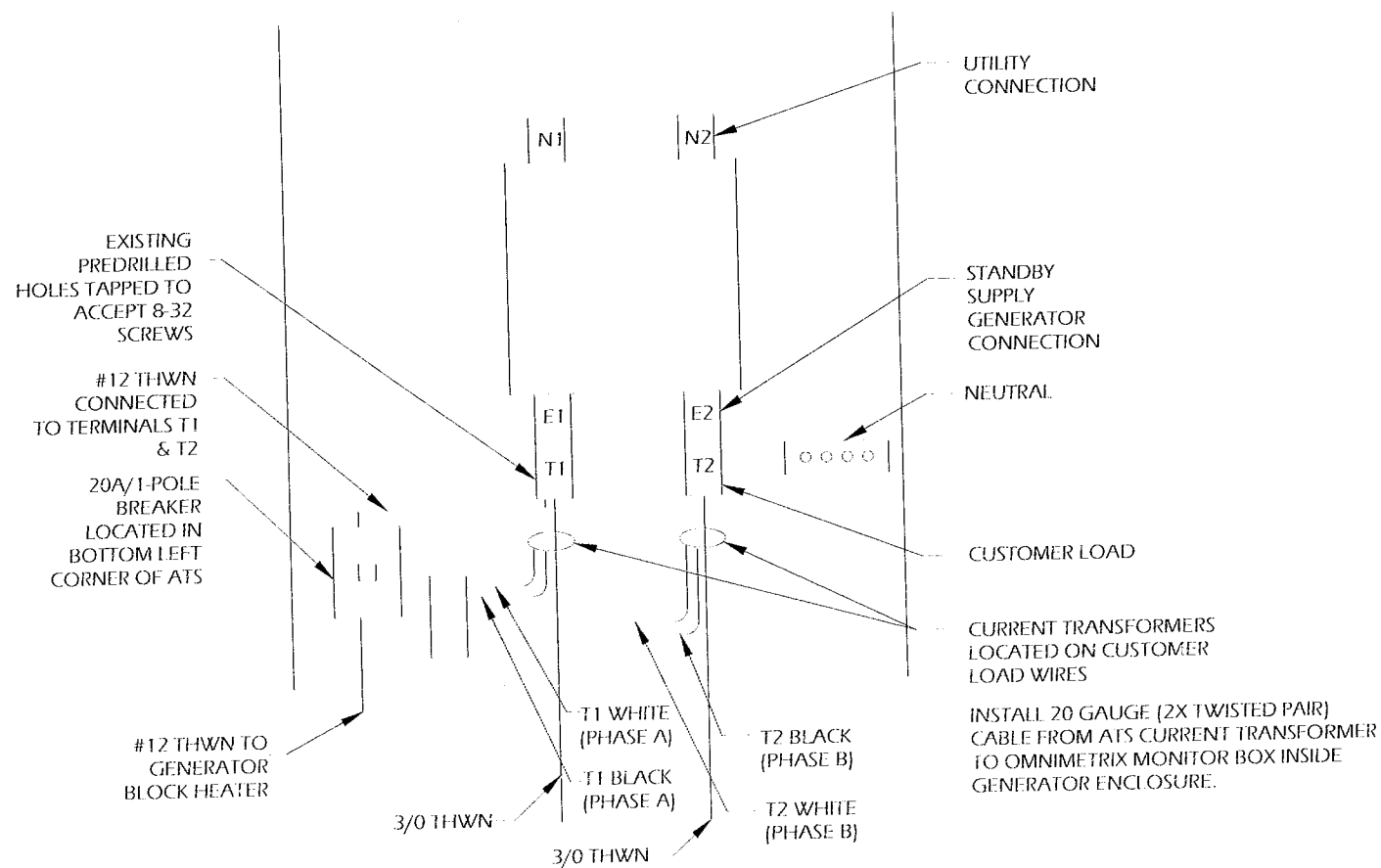
* Not included in HTS with switched neutral. ** Allowable wire range in brackets is for 2 wires per lug.



PART NO.	RATIO	MODEL NO.	1%	VA	OHMS	"A"	"B"	"C"
OF7784A	100:1A	635-100-01-L36	1	1	.31	65	28	30.5
OF7784B	200:1A	635-200-01-L36	1	5	.95	65	28	30.5
OF7784C	300:1A	A-300-01-L36	1	4.5	.06	112	57.1	27.4
OF7784D	400:1A	A-400-01-L36	1	4	.11	112	57.1	27.4
OF7784E	500:1A	A-500-01-L36	1	6.5	.13	112	57.1	27.4
OF7784F	600:1A	A-600-01-L36	1	7.5	.15	112	57.1	27.4
OF7784G	800:1A	MW-800-01-L36	1	10	.20	143.5	89	29.2
OF7784H	1000:1A	MW-1000-01-L36	1	12	.22	143.5	89	29.2
OF7784J	1500:1A	MW-1500-01-L36	1	15	.50	143.5	89	29.2
OF7784K	2000:1A	MW-2000-01-L36	1	12	.67	143.5	89	29.2
OF7784L	3000:1A	MW-3000-01-L36	1	25	1.0	143.5	89	29.2

NOTE:
1. ORIGINAL CURRENT TRANSFORMERS.

CURRENT FLOW METER IN ATS



NOTES:
1. CONNECT TO TENANT BREAKER AT METER.
2. CONNECT TO DISTRIBUTION CENTER BRANCH BREAKER

ATS

*SINGLE PHASE

Ref: All Generac Power Systems fuel tank bases supplied from the factory are manufactured and labeled per U.L.142 and are warranted through Generac Power Systems.

UL registration number: MH18459

U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION

Fuel tank base construction:

- Be constructed in accordance with Underwriters Laboratories Standard UL-142. Be constructed in accordance with Flammable and Combustible Liquids Code, NFPA 30; The Standard for Installation and use of Stationary Combustible Engine and Gas Turbines, NFPA 37; and The Standard for Emergency and Standby Power Systems, NFPA 110. Include reinforced steel box channel for generator support, with load rating of 5,000 lbs. per gen-set mounting hole location. Full height gussets shall be provided at gen-set mounting holes. Be shipped with a certificate of Structural/Mechanical Integrity, certifying that it has met standards through rigorous testing and has demonstrated specified capabilities.

Sub Base Tank Testing:

Primary tank and secondary containment basin sections shall be pressurized at 3-5 psi and leak-checked to ensure integrity of sub base weld seams per UL-142 standards

Sub Base Tank Fittings:

The sub base tank shall include the following fittings:

- Appropriately sized NPT
- Fuel supply Fuel return fitting
- NPT for normal vent, sized as appropriate NPT for emergency vent, sized as appropriate
- 2" NPT for manual fill
- NPT for level gauge, sized as appropriate.
- 2" NPT for electronic fuel level; includes Low fuel alarm. High fuel level alarm
- NPT fitting for leak detection alarm

Fuel Level Gauge

The sub base tank shall include a direct-reading fuel level gauge.

Low Fuel Level

Factory Pre-set at 40% remaining for Alarm
Factory Pre-set at 20% remaining for Shut-down

High Fuel Level

Factory Pre-set at 90% full for Alarm

Fuel Containment Basin

Sub base tank shall include a welded steel containment basin, sized at a minimum of 110% of the tank capacity to prevent escape of fuel into the environment in the event of a tank rupture. A fuel containment basin leak detector switch shall be provided.

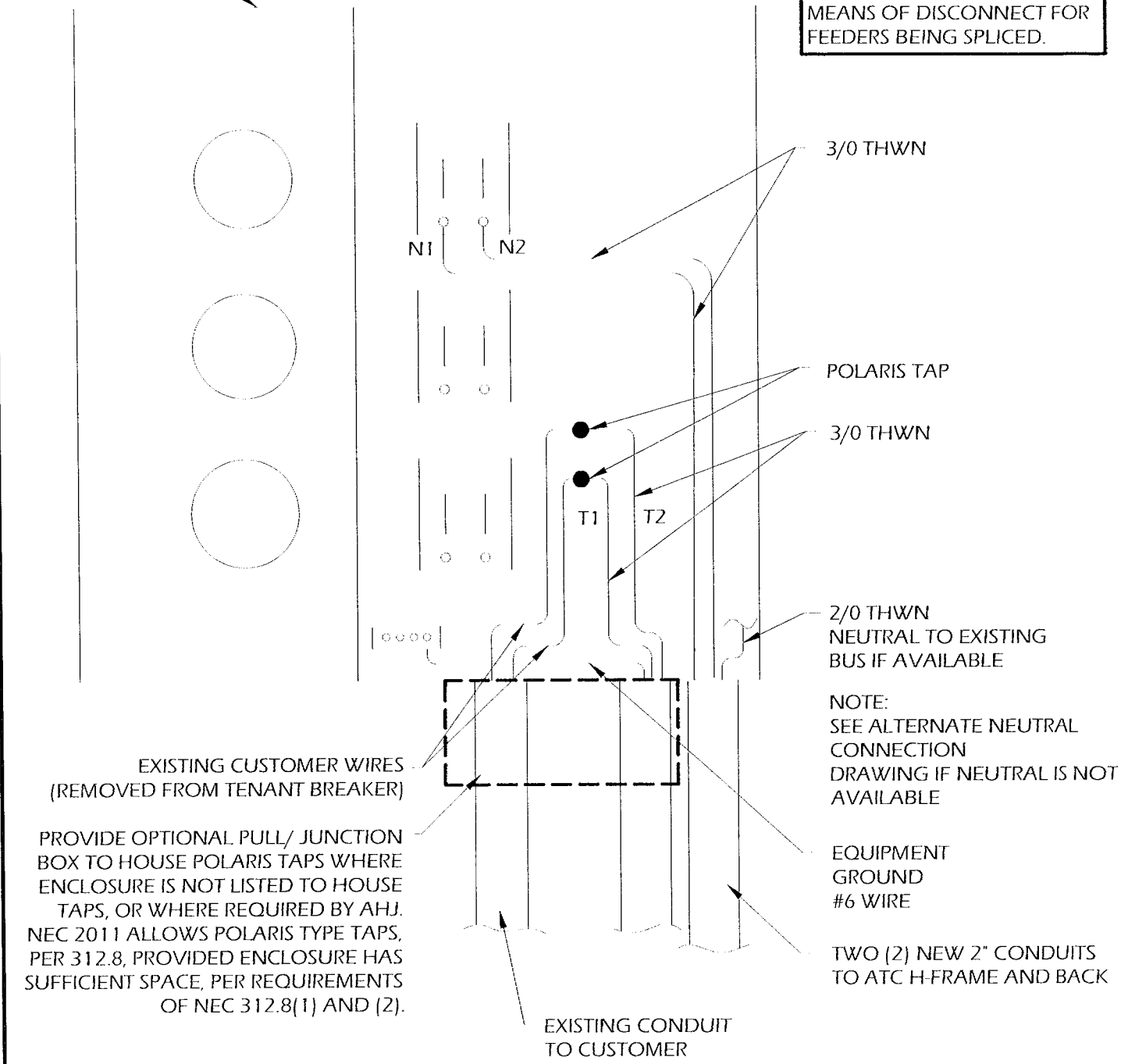
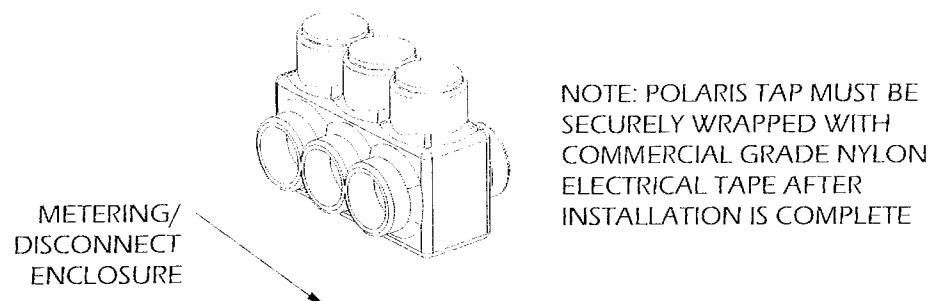
Sub Base Tank Venting

Normal and Emergency Venting:

Normal and Emergency venting shall be sized per U.L. 142 specifications for wetted surface area of tank.

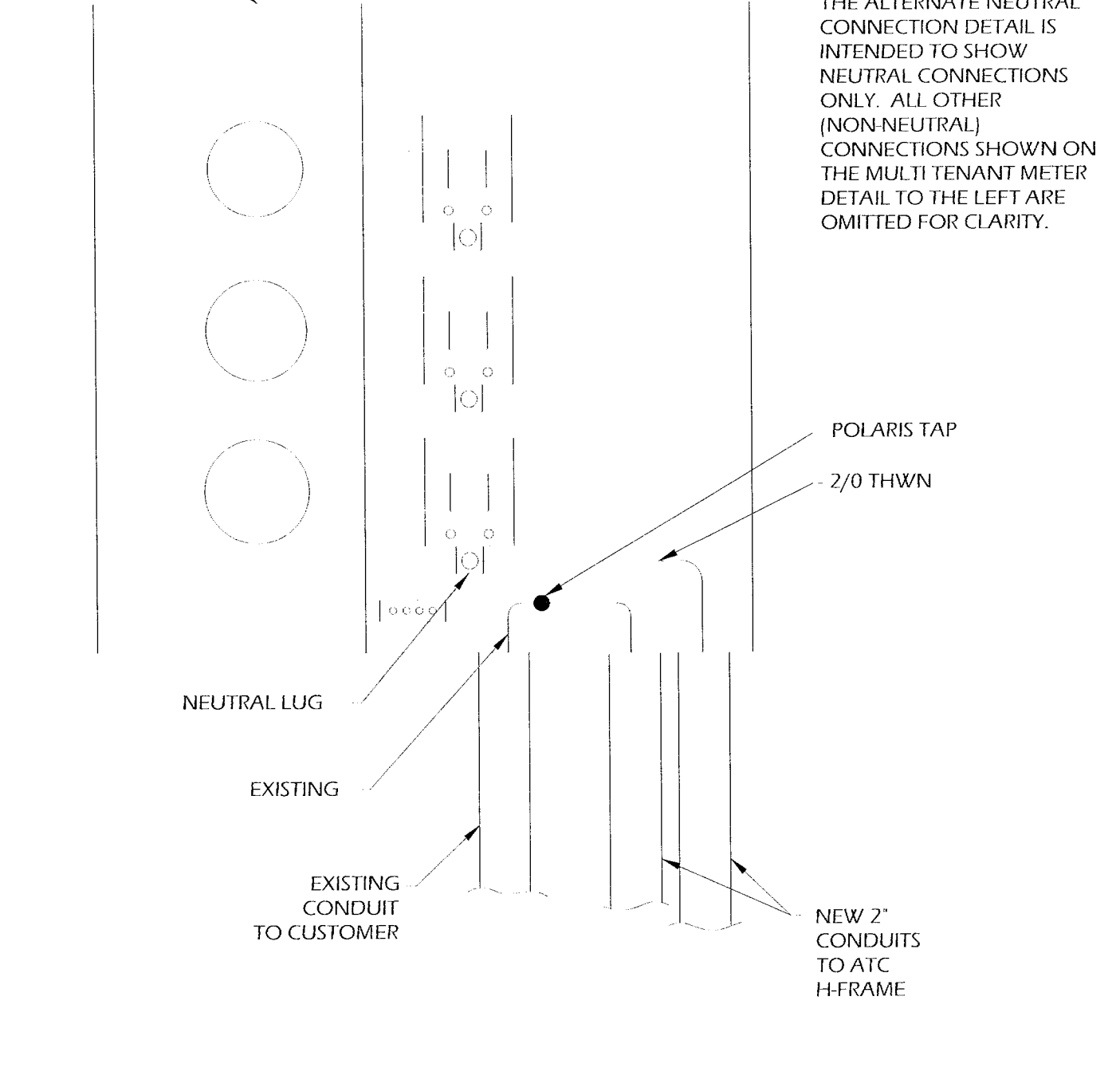
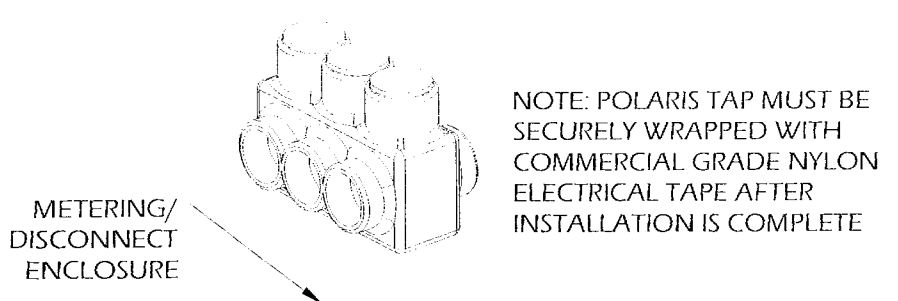
NOTE: BONDING JUMPER/
GROUNDING ELECTRODE
CONDUCTOR SHALL BE #4 CU
FOR 200A, PER NEC TABLE
250.66.

PER NEC 312.8(3), PROVIDE
WARNING LABEL (PHENOLIC
PLATE) ON ENCLOSURE
CONTAINING POLARIS TAP
SPECIFYING LOCATION OF
MEANS OF DISCONNECT FOR
FEEDERS BEING SPLICED.

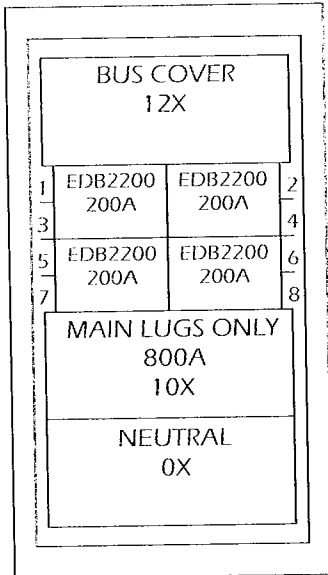


1 MULTI TENANT METER OPTION
SCALE: NOT TO SCALE

*SINGLE PHASE, 200A



2 ALTERNATE NEUTRAL CONNECTION
FOR MULTI-TENANT METER OPTION
SCALE: NOT TO SCALE



GENERAL INFORMATION (SECTION 1 OF 1)

SERVICE VOLTAGE: 120/240V 1PH 3W ENCLOSURE: TYPE 3R
 BUS RATING & TYPE: 800A ALUMINUM NEUTRAL RATING: 800A
 GROUND BAR: SLD. BOLTED ALUMINUM, AL OR Cu CABLE
 S.C. RATING: 22K A.I.C. FULLY RATED

MAIN DEVICE TYPE: MAIN LUGS ONLY - BOTTOM CABLE ENTRY
 MAIN TERMINALS: MECHANICAL (3) #2-500 kcmil (Cu/Al)
 NEUTRAL TERMINALS: MECHANICAL (3) #2-500 kcmil (Cu/Al)
 BOOK CATALOG NO: RPG2457
 TRIM: COMPLETE ENCLOSURE (INCLUDES TRIM)

SURFACE MOUNTED

BOX DIMENSIONS: 57" (1447.8mm)H X 24" (609.6mm)W X 12.65" (326.4mm)D
 MIN. GUTTER SIZE: TOP=10.625" (269.9mm) BOTTOM=10.625" (269.9mm)
 LEFT=5" (127.0mm) RIGHT=5" (127.0mm)

FINAL ID NAMEPLATE: (1) 800A
 TYPE: PLASTIC ADHESIVE-BACKED (2) 120/240V 1PH 3W
 COLOR: WHITE WITH BLACK LETTERS (3)

UL SERVICE ENTRANCE LABEL

TRIM LOOK-T-HANDLE LOCK ASSEMBLY
 CIRCUIT DIRECTORY PLASTIC SLEEVE WITH CARD
 PAINTED BOX ANSI 61

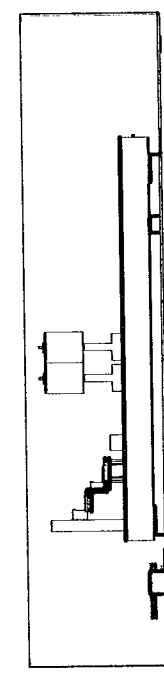
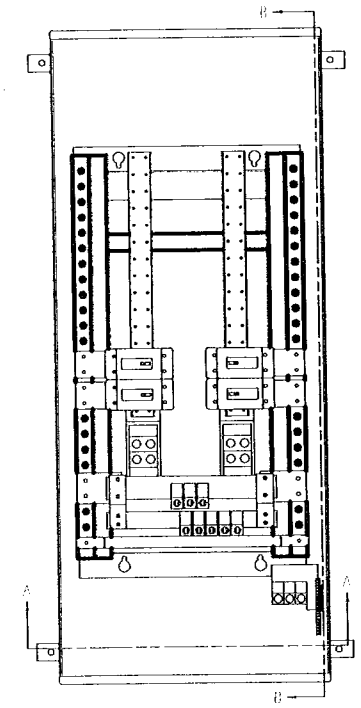
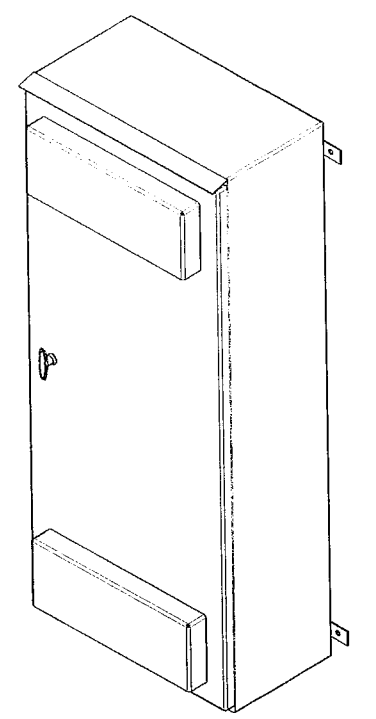
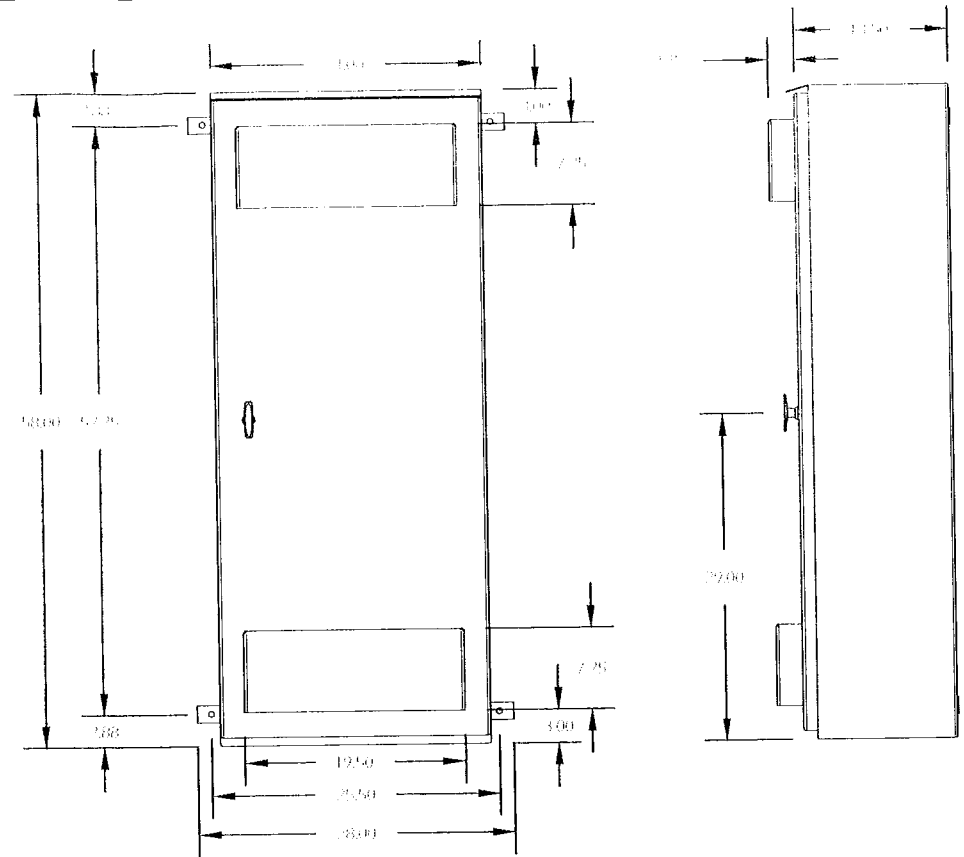
PLANT INFORMATION

	PART NUMBER	QTY	PART NUMBER	QTY
UL LABEL:	7494A06H01	1	EOB2200	4
BUS CUTTING:	6563C06H01	2		
NEUTRAL:	6672C66G03	1		
GROUND BAR, AL/CU:	6572C78G03	1		
CHASSIS ASSEMBLY:	6572C25G06	1		
LUG ASSEMBLY:	6572C52G06	1		
BREAKER ASSY:	6572C87G04	2		
DEAD FRONT COVER:	5554C11801	2		
COVER PACKAGING:	4177B06G02	1		
DEAD FRONT COVER ASSEMBLY:	6574C74G02	1		
PACKAGING:	50C5330G01	1		

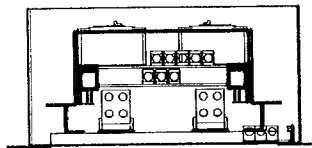
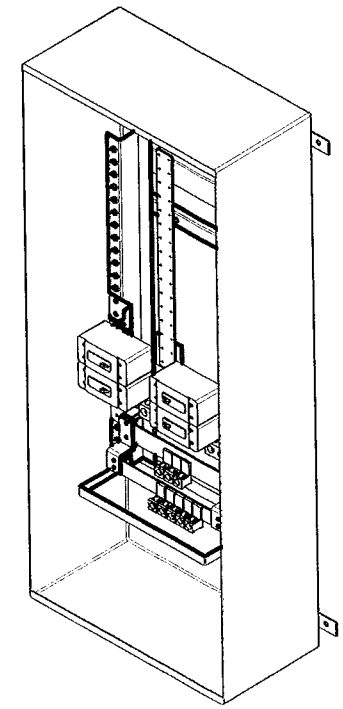
Spot _____ Final Inspection _____

Notes:

NOTE:
 PANEL SHOWN IS FOR SINGLE PHASE. FOR 3-PHASE SITES, USE CORRESPONDING 3-POLE VERSION OF THIS PANEL.



SECTION BB



SECTION AA

DISTRIBUTION PANEL
 SCALE: NOT TO SCALE

DISTRIBUTION PANEL DETAILS
 SCALE: NOT TO SCALE

POWER RATINGS (kW)

	STANDBY		PRIME	
Single Phase 120/240VAC @ 1.0pf	80 Amps:	333	72 Amps:	300
Three-Phase 120/208VAC @ 0.8pf	80 Amps:	278	72 Amps:	250
Three-Phase 120/240VAC @ 0.8pf	80 Amps:	241	72 Amps:	217
Three-Phase 277/480VAC @ 0.8pf	80 Amps:	120	72 Amps:	108
Three-Phase 346/600VAC @ 0.8pf	80 Amps:	96	72 Amps:	87

STARTING CAPABILITIES (kVA)

Alternator	kW	480VAC						208/240VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard*	80	59	88	117	147	176	205	44	59	88	110	132	154
Upsize 1	100	79	118	157	197	236	275	59	79	118	148	177	206
Upsize 2	125	116	174	232	290	348	406	87	116	174	218	261	305

*All Generac industrial alternators utilize Class F materials. Standard alternator provides less than or equal to Class F temperature rise. Upsize 1 provides less than or equal to Class A temperature rise.

Fuel

Fuel Consumption Rates**

Fuel Pump Lift - in (m)	STANDBY			PRIME		
	Percent Load	gph	lph	Percent Load	gph	lph
36(.9)	25%	2.1	7.9	25%	1.9	7.2
Total Fuel Pump Flow (Combustion + Return)	50%	3.7	14.0	50%	3.4	12.9
	75%	5.7	19.7	75%	4.7	17.8
	100%	6.3	23.8	100%	5.8	22.0

**Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

COOLING

Coolant System Capacity - Gal (L)	STANDBY		PRIME
4.5 (17.4)	Coolant Flow per Minute	gpm (lpm)	32.7 (123.8)
Maximum Radiator Backpressure	Heat rejection to Coolant	BTU/hr	137,140
	Inlet Air	cfm (m ³ /min)	6360 (180.0)
1.5" H ₂ O Column	Max. Operating Radiator Air Temp	F (C)	122(50)
	Max. Operating Ambient Temperature	F (C)	122(50)

COMBUSTION AIR REQUIREMENTS

Intake Flow at Rated Power	STANDBY	PRIME
cfm (m ³ /min)	306 (8.67)	275 (7.80)

EXHAUST

Exhaust Outlet Size (Open Set)	STANDBY		PRIME
3.0"	Exhaust Flow (Rated Output)	cfm (m ³ /hr)	790(134.4)
Maximum Backpressure (Post-Silencer)	Maximum Backpressure	inHg (Kpa)	1.5(5.1)
	Exhaust Temp (Rated Output)	F (C)	887(475)
1.5"			887(475)

ENGINE

	STANDBY	PRIME
Rated Engine Speed	rpm	1800
Horsepower at Rated kW***	hp	137
Piston Speed	ft/min (m/min)	1559(44.1)
BMEP	psi	210

*** Refer to "Emissions Data Sheets" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performing ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

GENERATOR SET

- Genset Vibration Isolation
- IBC Seismic Certified/Seismic Rated Vibration Isolators
- Extended warranty
- Export boxing
- Gen-Link Communications Software
- Steel Enclosure
- Aluminum Enclosure

ENGINE SYSTEM

- General**
- Oil Drain Extension
- Oil Make-Up System
- Oil Heater
- Fuel System**
- Fuel lockoff solenoid
- Secondary fuel filter
- Stainless steel flexible exhaust connection
- Industrial Exhaust Silencer
- Critical Exhaust Silencer
- Flexible fuel lines
- Primary fuel filter
- Single Wall Tank (Export Only)
- UL 142 Fuel Tank

Cooling System

- 120VAC Coolant Heater
- 208VAC Coolant Heater
- 240VAC Coolant Heater
- Other Coolant Heater
- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory Installed Radiator
- Radiator Drain Extension

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Battery box
- Battery heater
- Solenoid activated starter motor
- Air cleaner
- Fan guard
- Radiator duct adapter
- 7A battery charger
- 10A UL float/equalize battery charger
- Rubber booted engine electrical connections

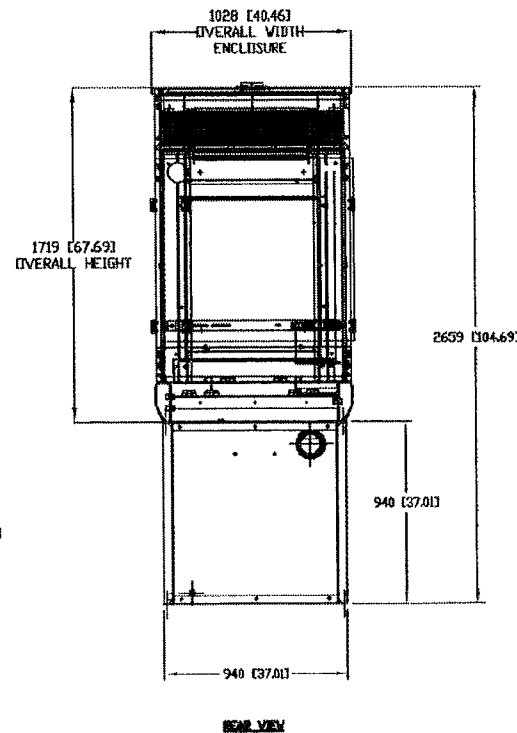
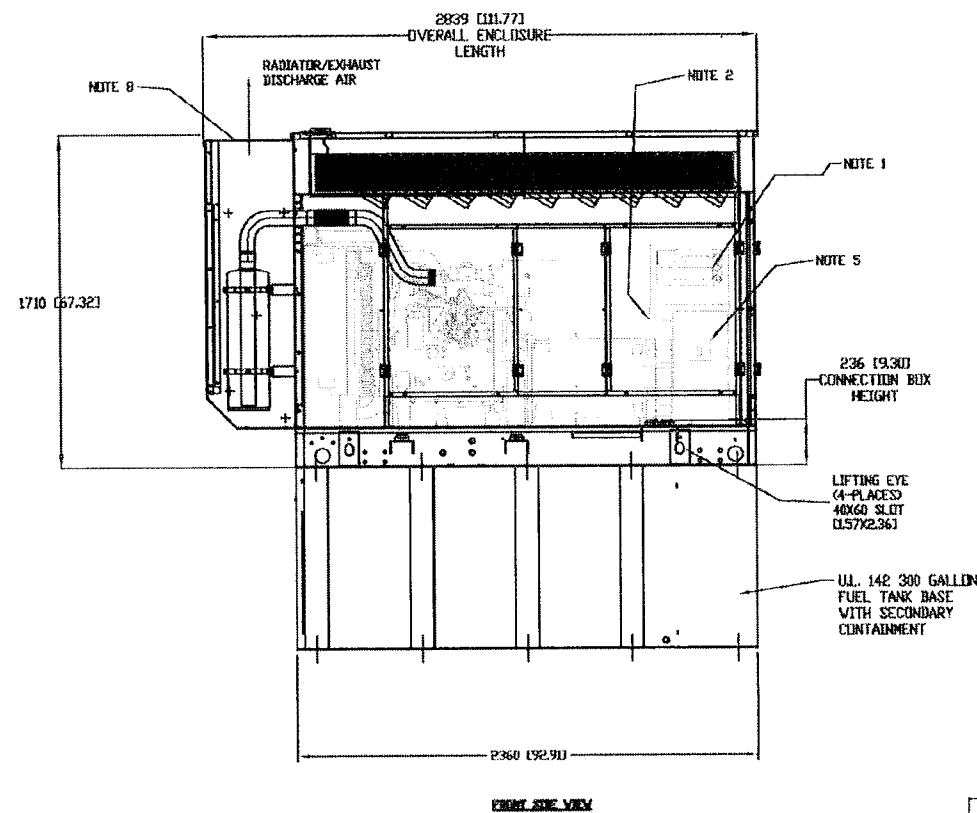
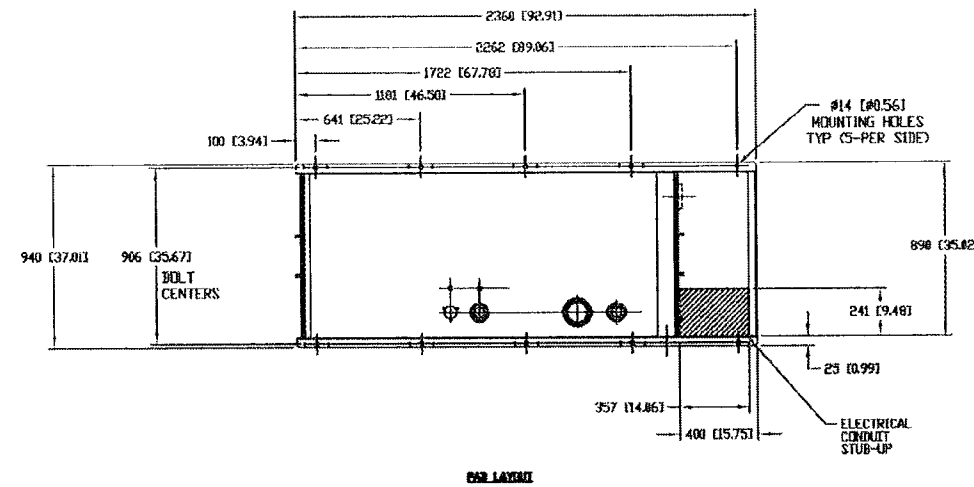
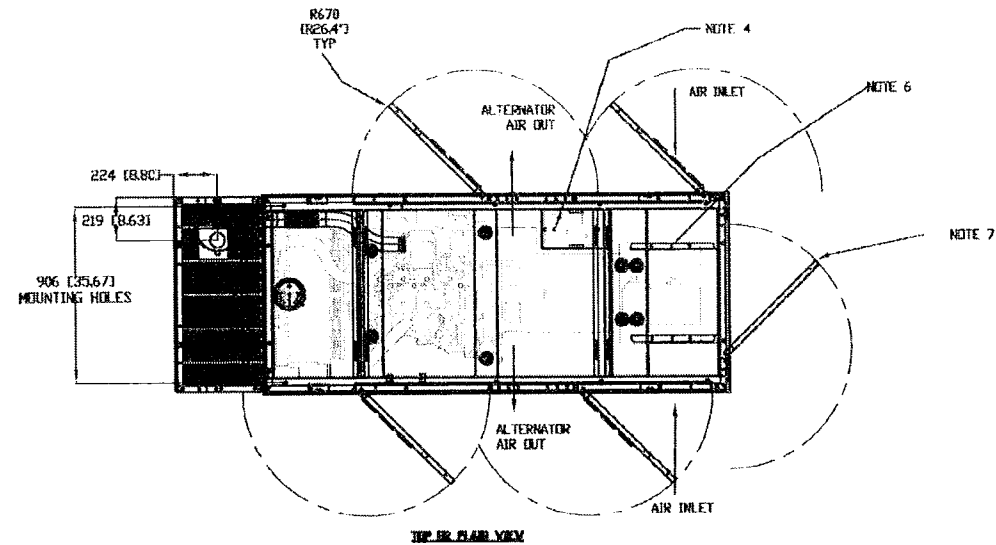
ALTERNATOR SYSTEM

- UL 2200 GILNprotect
- Main Line Circuit Breaker
- 2nd Circuit Breaker
- 3rd Circuit Breaker
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical coating
- Permanent Magnet Excitation

CONTROL SYSTEM

- General**
- Digital I Control Panel - Dual 4x20 Display
- Digital G-100 Control Panel - Touchscreen
- Digital G-200 Paralleling Control Panel - Touchscreen
- Programmable Crank Limiter
- 21 Light Remote Annunciator
- Remote relay Panel (8 or 16)
- 7-Day Programmable Exercises
- Special Applications Programmable PLC
- RS-232
- RS-485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring (Req. 11-Transfer Switch)
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- Reactive Power
- All phase AC Voltage
- All phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Oil Temperature
- Fuel Pressure
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- UL 2200 GENprotect
- Low-Speed Exercise
- Isochronous Governor Control
- 40deg C - /0deg C Operation
- Waterproof Plug-in Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- On/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- NFPA 110 Level I and II (Programmable)
- Remote Communication - RS232
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)**
- Low Fuel
- Oil Pressure (Pre-programmed Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Alternator Overload
- Fuel Pressure
- Engine Speed (Pre-programmed Overspeed Shutdown)
- Voltage (Pre-programmed Overvoltage Shutdown)
- Battery Voltage
- Other Options**
-
-
-

0H5302C-ATC



RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)	
AC LOAD LEAD CONDUIT SEE NOTES 5 & 6 FOR CB LOCATION NOTE-A (SEE STUB UP AREA I & II)	A
(STUB-UP I) GLAND PLATE AC LOAD LEAD CONDUIT FOR PERMANENT MAGNET EXCITATION CONNECTION BOX	B
(STUB-UP II) GLAND PLATE AC LOAD LEAD CONDUIT FOR DIRECT AND BRUSHLESS EXCITATION CONNECTION BOX	C
OVERALL STUB-UP AREA 120/240V AC TO OUTLET (SEE NOTE 2) FOR OPTIONS	

- NOTE:
- CONTROL PANEL MAY BE ROTATED 180DEG IN EITHER DIRECTION
 - 1- 20A GFCI DUPLEX OUTLET (120V BY CUSTOMER)
 - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL
 - BATTERY GND VOLT NEGATIVE GROUND SYSTEM
 - MAIN LINE CIRCUIT BREAKER (HLCB), (AC LOAD LEADS CONNECT DIRECTLY TO HLCB)
 - REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER
 - DOORS MUST BE ABLE TO OPEN TO AT LEAST 90DEG TO BE REMOVED
 - SEE DRAWING 0C3858 FOR DUCT REMOVAL, REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING
 - STANDARD BLOCK HEATER
 - FUEL LINES ARE PLUMBED TO FRAME FOR UNITS WITH NO BASE TANK. FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK WHEN SO EQUIPPED
 - CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
 - IF GENSET IS TO BE INSTALLED ON A BASETANK REFER TO BASETANK INSTALL DRAWING
- ENGINE SERVICE CONNECTIONS:
- FUEL INLET = 1/2" NPT COUPLING
 - FUEL RETURN = 1/2" NPT COUPLING
 - OIL DRAIN = 1/2" NPT COUPLING
 - EXHAUST OUTLET - 3.0" O.D. MUFFLER

WEIGHT DATA
APPROX. DRY WEIGHT WITHOUT FUEL GENSET PACKAGE: 4032 lbs.

REFERENCE DRAWING 0H5302C FOR INSTALLATION
FUEL TANK DRAWING 0H4610A

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.
© GENERAC POWER SYSTEMS 2001

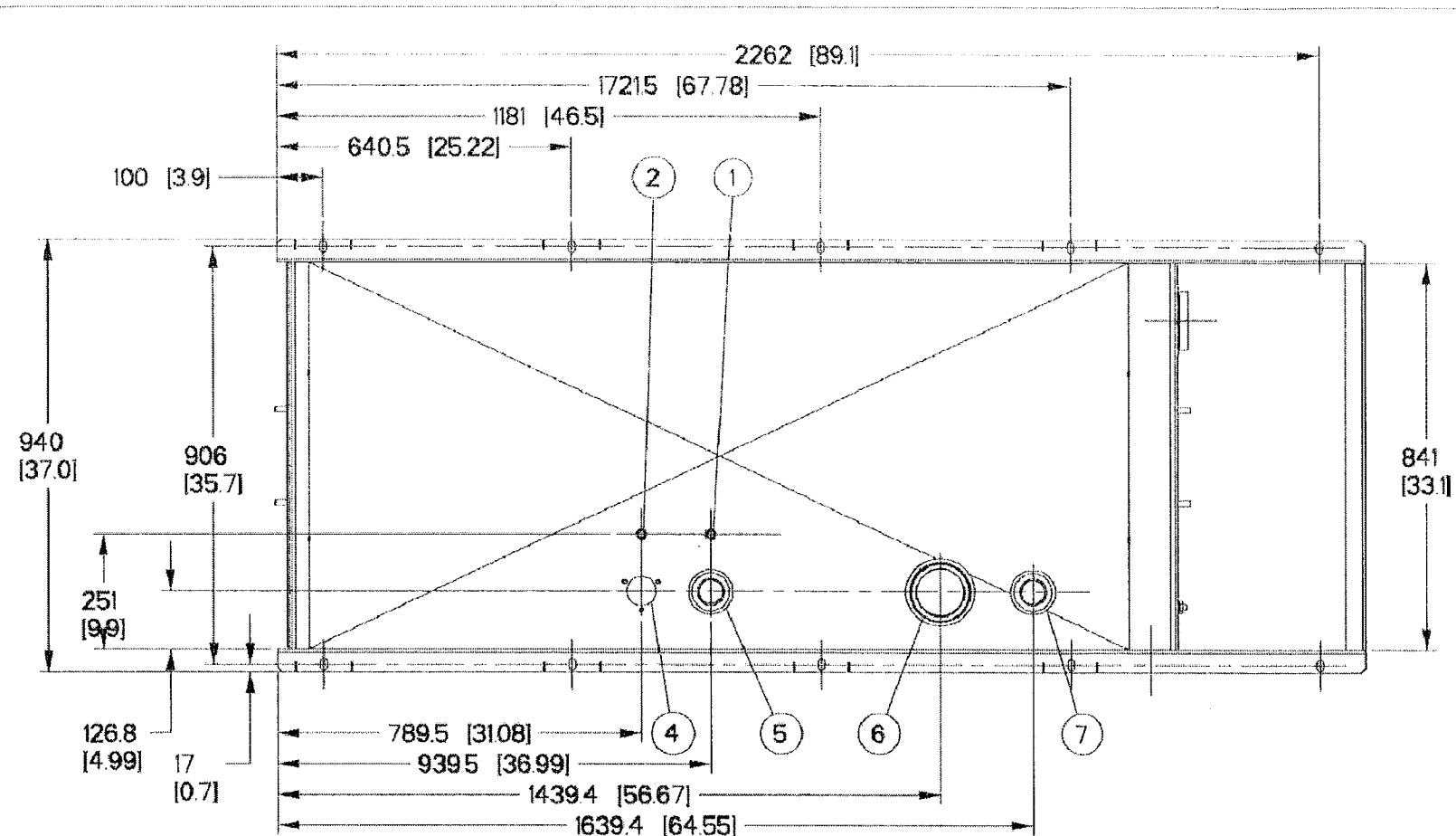
INSTALLATION DRAWING

SD80
DIESEL 4.5L IVECO

TURBOCHARGED & AFTERCOOLED
SOUND ATTENUATED ENSL., LVL 2
W/ 300 GALLON FTB

GENERAC POWER SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	0H5302C-B ATC.DWG	SIZE	B
SCALE	N/A	FIRST USE	D4.5L IVECO
DWG NO.	0H5302C-ATC		REV
			B

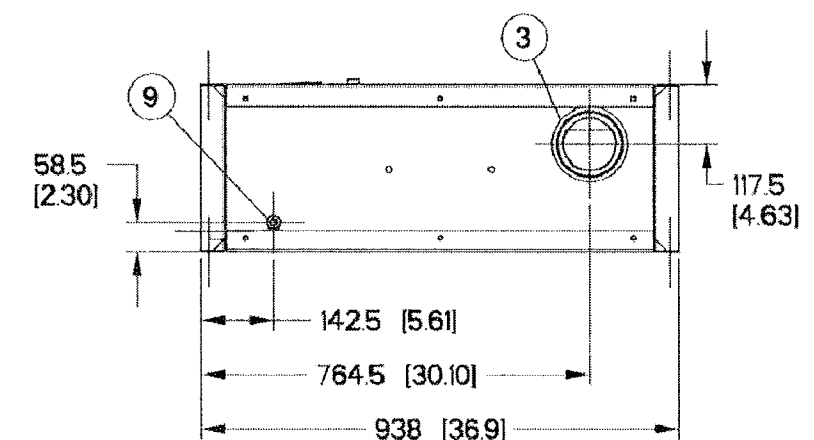
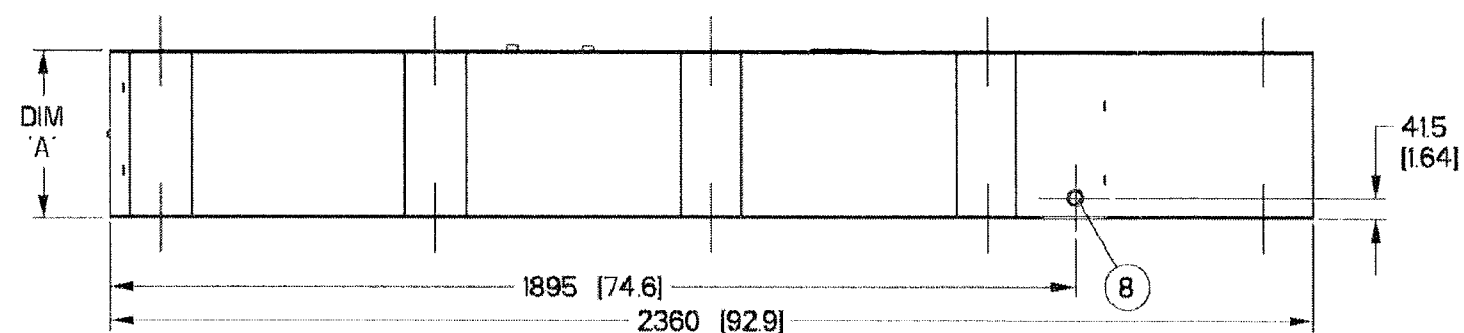


ITEM #	TANK FITTING	FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	3/8" NPT COUPLING	FUEL RETURN
3	4" NPT WELD FLANGE	EMERGENCY VENT (OUTER)
4		FUEL LEVEL
5	2" NPT WELD FLANGE	FUEL FILL
6	4" NPT WELD FLANGE	EMERGENCY VENT (INNER)
7	2" NPT WELD FLANGE	VENT
8	3/4" NPT COUPLING	DRAIN
9	Ø22 HOLE	LEAK DETECTOR

TANK P/N	OH48080ST03	OH48090ST03	OH48100ST03
DIM "A"	330 [13]	635 [25]	940 [37]
TOTAL TANK CAPACITY	318 [84]	734 [194]	1154 [305]
USABLE TANK CAPACITY	299 [79]	716 [189]	1134 [300]
DRY WEIGHT (EST)	237 [522]	344 [758]	445 [982]

NOTES:
 1) ALL DIMENSIONS ARE:
 LENGTH: mm [inch]
 WEIGHT: kg [lbs]
 CAPACITY: L [gal]

2) UL #142 LISTED



DRAWING CREATED FROM PRO/ENGINEER
 3D FILE. ECO MODIFICATION TO BE
 APPLIED TO SOLID MODEL ONLY.

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS
 DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT
 BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS
 SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF
 GENERAC POWER SYSTEMS. © GENERAC POWER SYSTEMS 2009

GENERAC

TITLE
 B-GROUP, DW TYPE 2 TANKS

ISSUE DATE:	10/02/09		
SIZE	CAGE NO	DWG NO	REV
B		OH4610A	D
SCALE	WT-KG	SHEET 1 of 1	
0.075	--		

INSTALLATION DRAWING