

Contract Number: CTN-IT-CMS 140044 09
Effective Date : 9-3-13
Term Date : 7-4-15
Cost : ✓
Revenue : ✓
Total : _____ NTE: _____
Action
Renewal By : 4-1-15
Term : 7-4-15
Reviewed by: VZ

BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: September 3, 2013

ITEM SUMMARY, JUSTIFICATION &/or SPECIAL CONSIDERATIONS:

The Ninth Amendment To License between Pima County and Alltel Communications of the Southwest Limited Partnership, replaces Exhibit D (modifications to Site C, 5104 North Sabino Canyon Road) to include a new generator at the site and a written Spill Prevention Control and Countermeasure Plan for the facility. The back-up generator is in response to the Federal Communication Commission's Order on Reconsideration (FCC 07-177 adopted October 2, 2007, <http://www.njslom.org/FCC-07-177A1.pdf>). The Amendment includes insurance and other language specific to the generator in accordance with Pima County Risk Management requirements. No change in fee structure or basic terms of the contract.

CONTRACT NUMBER (If applicable): CTN-IT-CMS140044 (formerly #12-14-T-140044-0700)

STAFF RECOMMENDATION(S):

The Information Technology Department recommends that the Pima County Board of Supervisors adopt and the Chairman sign the Ninth Amendment to License for Alltel Communications of the Southwest Limited Partnership dba Verizon Wireless.

CORPORATE HEADQUARTERS: Nevada
Page 1 of 2

To: COB- 8-21-13
Agenda 9-3-13
(2)

Procure Dept 08/15/13 PM 1:12

CLERK OF BOARD USE ONLY: BOS MTG. _____

ITEM NO. _____

PIMA COUNTY COST: N/A and/or REVENUE TO PIMA COUNTY: \$ N/A

FUNDING SOURCE(S): N/A

(i.e. General Fund, State Grant Fund, Federal Fund, Stadium D. Fund, etc.)

Advertised Public Hearing:

		YES	X	NO
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Board of Supervisors District:

1	X	2		3		4		5		All	
---	---	---	--	---	--	---	--	---	--	-----	--

IMPACT:

IF APPROVED:

Alltel Communications of the Southwest Limited Partnership dba Verizon Wireless will install a back-up diesel generator to their existing facility at 104 North Sabino Canyon Road to enhance/improve telecommunication services to Pima County residents and comply with Order on Reconsideration FCC 07-177 dated October 2, 2007.

IF DENIED:

Alltel Communications of the Southwest Limited Partnership dba Verizon Wireless will not be allowed to install a back-up diesel generator to their existing facility at 104 North Sabino Canyon Road and telecommunication services will not be enhanced/improved for Pima County residents, and there will be no compliance with Order on Reconsideration FCC 07-177 dated October 2, 2007.

DEPARTMENT NAME: Information Technology

CONTACT PERSON: Julie K McWilliams TELEPHONE NO.: 724-8066



CONTRACT	
NO.	<u>CTN-IT-CMS140044</u>
AMENDMENT NO.	<u>09</u>
This number must appear on all invoices, correspondence and documents pertaining to this contract.	

**PIMA COUNTY
NINTH AMENDMENT
TO LICENSE**

CONTRACT No. CTN - IT - CMS140044
(former contract #12-14-T-140044-0700)

THIS NINTH AMENDMENT is entered into by and between Pima County ("Licensor"), a political subdivision of the State of Arizona, and Alltel Communications Southwest Holdings, Inc., d/b/a Verizon Wireless ("Licensee"), a Delaware Corporation, and shall be effective upon endorsement by the Pima County Board of Supervisors.

RECITALS

Licensor and 360 Communications Company of Nevada, a Nevada limited partnership, entered into a Non-Exclusive Right-of-Way Use License ("the License") dated July 5, 2000, with an expiration date of July 4, 2005, and recorded on July 13, 2000, in Docket 11339, Page 59, in the office of the Pima County, Arizona, Recorder.

Alltel Communications of the Southwest Limited Partnership subsequently merged with 360 Communications Company of Nevada and assumed the rights and obligations under the License. The License has previously been amended to extend the term of the contract through July 4, 2015, delete Site A (Exhibit B) and Site D (Exhibit E), and modify Site B (Exhibit C), Site C (Exhibit D), Site E (Exhibit F), and Site F (Exhibit G).

With this Ninth Amendment to License, Licensor agrees to modifications to Site C (5104 N Sabino Canyon Rd) as represented on Revised Exhibit D. Annual fee and termination date remain unchanged.

AGREEMENT

WHEREFORE, the parties agree as follows:

1. The effective date of this Ninth Amendment to License shall be upon endorsement by the Pima County Board of Supervisors.
2. Annual fee shall remain unchanged.
3. Exhibit D is replaced in its entirety (TUC SABINO CANYON, 5104 N Sabino Canyon Road) to include a new generator at the site and a written Spill Prevention Control and Countermeasure Plan (SPCC) for the facility.
4. Licensee must obtain pollution liability insurance in the amount of \$1,000,000 naming Pima County as additional insured. Licensee shall provide County with current certificate of insurance evidencing that such insurance is in full force and effect. Licensee or its insured representative shall provide County written notice at least thirty (30) days prior to the cancellation of such insurance. The certificate of insurance as required herein must be presented to County within thirty (30) days of the effective date of this Ninth Amendment and on each anniversary date thereof during the term of the License, including any renewals and any holding-over thereafter.
5. If facility generates greater than 325 brake horsepower (bhp), Licensee will be required to hold a Pima County permit (Pima County Code 17.12.140.B.3)
6. All other provisions of the License, as previously amended, shall remain in effect and continue to be binding upon the parties.

(REMAINDER OF PAGE INTENTIONALLY LEFT BLANK)

IN WITNESS WHEREOF, the parties have affixed their signatures to this Ninth Amendment to License on the dates written below.

PIMA COUNTY:

Chair, Board of Supervisors

Date

LICENSEE:

Alltel Communications Southwest
Holdings, Inc, d/b/a Verizon Wireless

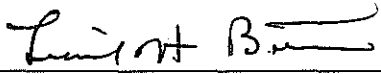
By: 
Name: Brian Mecum
Title: Area Vice President Network
Date: 8-2-13

ATTEST:

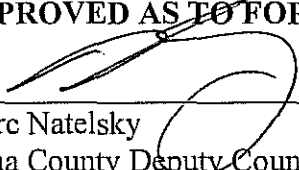
Clerk of the Board of Supervisors

Date

APPROVED AS TO CONTENT:


Lionel H. Bittner
Pima County Chief Information Officer
8/12/13
Date

APPROVED AS TO FORM:


Marc Natelsky
Pima County Deputy County Attorney
2/11/13
Date

RADIATION FROM THIS FACILITY WILL NOT INTERFERE WITH
OPERATION OF OTHER COMMUNICATION DEVICES.

THIS PROJECT CONSISTS OF THE INSTALLATION OF
(1) 4'X6' GENERATOR PAD, (1) 40 KW DIESEL GENERATOR
AND (1) AUTOMATIC TRANSFER EQUIPMENT CABINET.

THE PROPOSED ABOVE GROUND GENERATOR FUEL TANK CAPACITY IS 210 U.S. GALLONS IN WHICH THE SITE IS NOT SUBJECT TO SPCC RULE PER EPA. SPCC RULE REQUIRES A MINIMUM OF 1,320 U.S. GALLONS FOR ABOVE GROUND FACILITIES.

[illegible]

FROM TEMPE OFFICE:

1. HEAD WEST ON W GUMEN ON TOWARD S ASH AVE.
2. TURN LEFT ONTO S ASH AVE.
3. TURN RIGHT ONTO SUN CIRCLE TRAIL.
4. TAKE THE 1ST LEFT ONTO S KYRIENE RD.
5. TURN RIGHT ONTO W ELMST RD.
6. TURN RIGHT ONTO W MERRICK DR - 1/2 MILE TOWARD TUCSON.
7. TAKE EXIT 250 TOWARD ORANGE GROVE RD.
8. MERGE ONTO I-10 FRONTRAGE RD.
9. TURN LEFT ONTO W ORANGE GROVE RD.
10. TURN RIGHT ONTO E SKYLINE DR.
11. CONTINUE ONTO E SUNRISE DR.
12. TURN RIGHT ONTO N SABINO CANYON RD.

5104 N SABINO CANYON ROAD
TUCSON, AZ 85750
CITY OF TUCSON
PIMA COUNTY

PROJECT SUMMARY

SITE NAME: TUC SKIDBO CANYON
ADDRESS: 5104 N SHAWO CANYON ROAD
TUCSON, AZ 85750

COIL SITE INFORMATION:

FIRE: (520) 791-4502
RESCUE: (520) 791-4502
POLICE: (520) 295-4311

TAX MAP PARCEL ID: -
ZONING CLASSIFICATION: CR-1
MUNICIPALITY: CITY OF TUCSON / PIMA COUNTY

STRUCTURE TYPE: WOOD POLE
TOWER COORDINATES (HAYD 83): N 32° 17' 59.7"
W 110° 40' 25.0"
GROUND ELEVATION (HAYD 88): 2,708.0' AMSL

PROPERTY OWNER: PIMA COUNTY "BOARD OF SUPERVISORS"
130 WEST CONGRESS STREET
TUCSON, AZ 85701

APPLICANT: TESTCON ENGINEERING FOR VERIZON WIRELESS
4041 S. WILLOW CREEK DRIVE, SUITE 302
TEMPE, AZ 85283

CONTACT PERSON: COLLIAM BURKE
CONTACT PHONE: (510) 441-3974

ENGINEERING FIRMS:

TESTCON ENGINEERING &
SURVEYING CONSULTANTS, P.C.
8539 HAYLAND DRIVE, SUITE 102
RICHMOND, VA 23294

ENGINEERING CONTACT PERSON: PHILIP S. MELITA, P.E.
ENGINEERING CONTACT PHONE: (804) 217-8950
LEASING/ZONING CONTACT PERSON: COLLIAM BURKE
LEASING/ZONING CONTACT PHONE: (510) 441-3974

SURVEYOR:

SURVEYOR CONTACT PERSON: ARBIT CONSULTING
SURVEYOR CONTACT PHONE: HATT FORD
(802) 463-6472

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE ITSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE WORK PROJECT.
2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS ORDERED BY THE DISTRICT ENGINEER CAN BE ACCOMPLISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.
3. ALL FIELD MODIFICATIONS TO DESIGN, DURING OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON WIRELESS REPRESENTATIVE.
4. INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.
5. NOTIFY VERIZON WIRELESS, BY WRITING, OF ANY HAZARD, DISCREPANCY, VIOLATION, THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, OR OTHER MATTERS THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE, AND ACT UPON THE SAME ACCORDINGLY.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK UNDER THE CONTRACT.
7. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.
8. CONTRACTOR PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE, FOLLOWING THE FINAL INSPECTION BY VERIZON WIRELESS. CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH A COPY OF ALL RED-LINED DRAWINGS.
9. VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERMITS, AND TESTING RECORDS SHALL BE REVIEWED AND ARE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS, RELATED TO THE INSTALLATIONS.

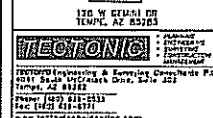
PLANS CONFORM TO 2009 IBC

PLANS CONFORM TO NEC 2011

ALL PLANE SCALE TO 24' x 36'

[illegible]

THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND EACH OF THE DRAWINGS HAS BEEN REWSED AND ISSUED "FOR CONSTRUCTION"



WORK ORDER NUMBER	DRYING BY
DISPOSABLE CANTON	CLE

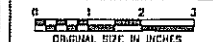
NO.	DATE	ISSUE
0	6/28/12	PRELIMINARY
1	9/10/12	100% CO
2	11/19/12	100% SPEC UPDATE
3	1/21/13	100% ADD SURVEY

UNAUTHORIZED ALTERATION OR
ADDITIONS TO A PLAN BEARING THE
SEAL OF A LICENSED ENGINEER OR
LAND SURVEYOR IS A VIOLATION OF
THE STATES LICENSING REGULATIONS

COPIES OF THIS DOCUMENT WITHOUT
A FACSIMILE OF THE SIGNATURE AND
AN ORIGINAL EMBOSSED SEAL OR
ORIGINAL STAMP IN BLUE OR RED
INK OF THE PROFESSIONAL ENGINEER
OR LAND SURVEYOR SHALL NOT BE
CONSIDERED VALID COPIES.



SITE INFORMATION
TUC SABINO CANYON
5104 N SABINO CANYON RD
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85750
VZW PROJ# 2012731163



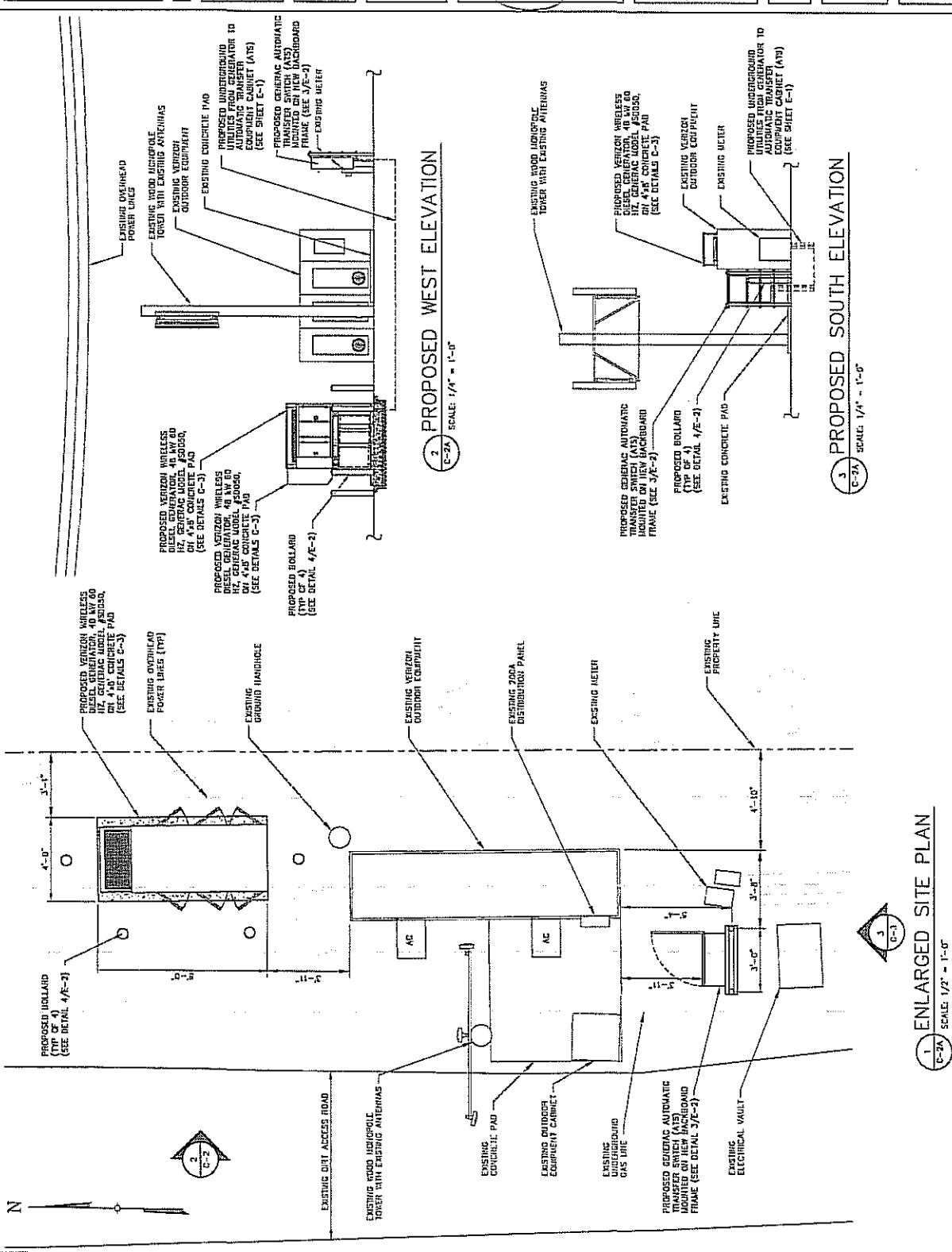
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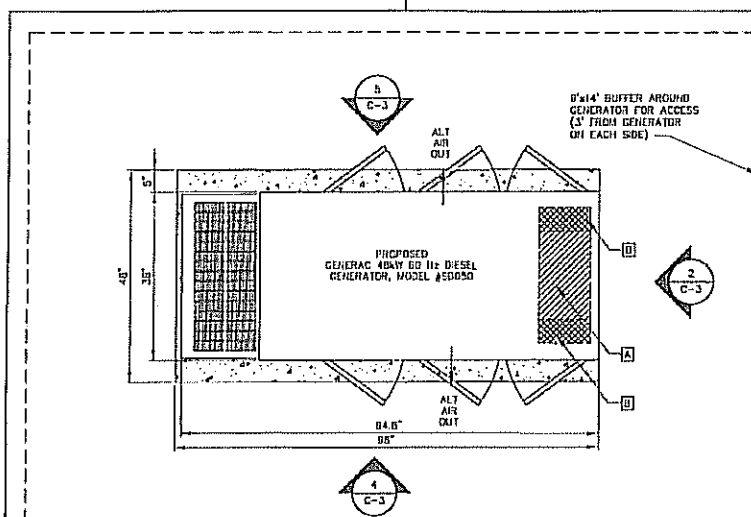
SHEET NUMBER

T-1

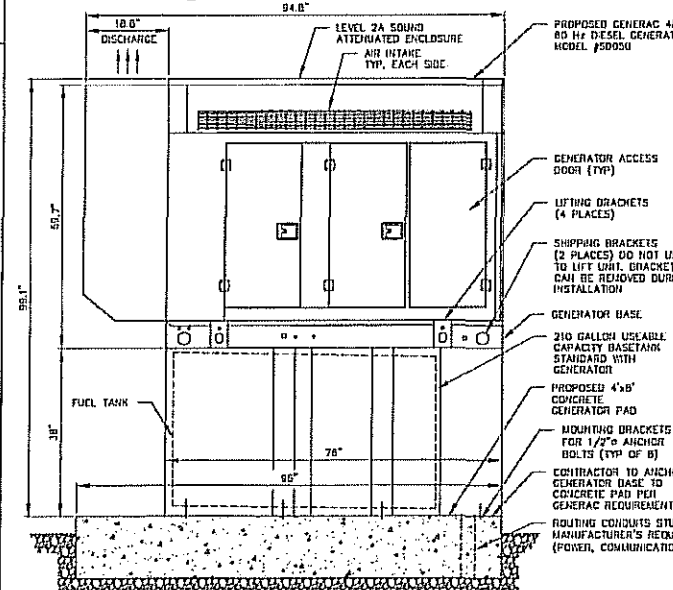
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C-2

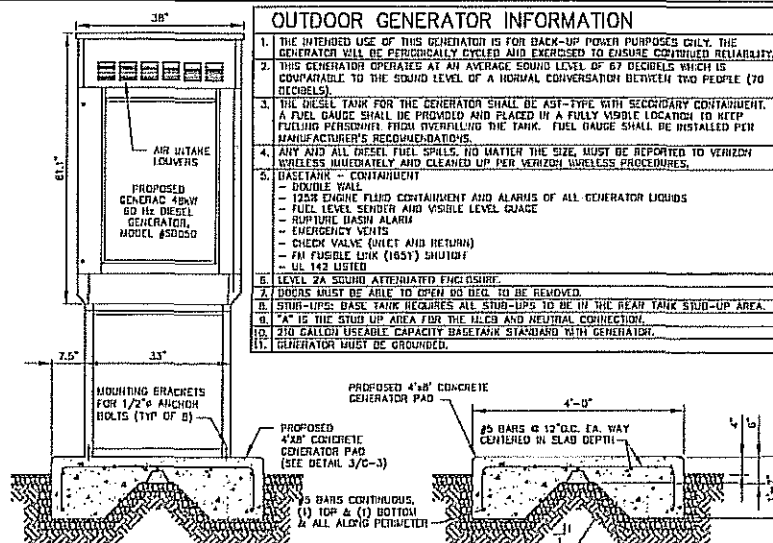




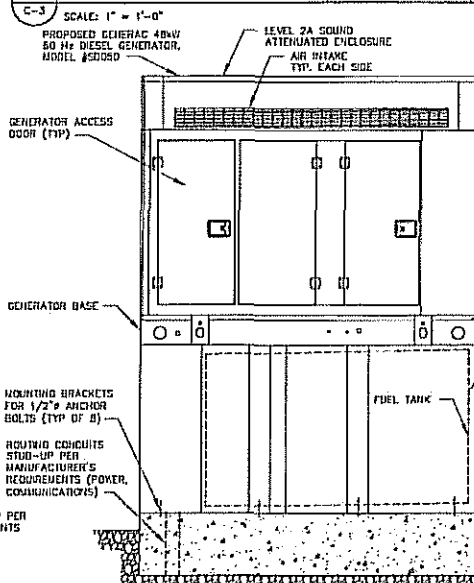
1 GENERATOR DETAIL (PLAN VIEW)
 SCALE: 1" = 1'-0"



4 GENERATOR DETAIL (LEFT SIDE VIEW)
 SCALE: 1" = 1'-0"



2 GENERATOR DETAIL (REAR VIEW)
 SCALE: 1" = 1'-0"



3 GENERATOR DETAIL (RIGHT SIDE VIEW)
 SCALE: 1" = 1'-0"

OUTDOOR GENERATOR INFORMATION

1. THE INTENDED USE OF THIS GENERATOR IS FOR BACK-UP POWER PURPOSES ONLY. THE GENERATOR WILL BE PERIODICALLY CYCLED AND EXERCISED TO ENSURE CONTINUED RELIABILITY.
2. THIS GENERATOR OPERATES AT AN AVERAGE SOUND LEVEL OF 67 DECIBELS WHICH IS COMPARABLE TO THE SOUND LEVEL OF A NORMAL CONVERSATION BETWEEN TWO PEOPLE (70 DECIBELS).
3. THE DIESEL TANK FOR THE GENERATOR SHALL BE ASST-TYPE WITH SECONDARY CONTAINMENT. A FUEL GAUGE SHALL BE PROVIDED AND PLACED IN A FULLY VISIBLE LOCATION TO KEEP FUELING PERSONNEL FROM OVERFILLING THE TANK. FUEL GAUGE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. ANY AND ALL DIESEL FUEL SPILLS, NO MATTER THE SIZE, MUST BE REPORTED TO VERIZON WIRELESS IMMEDIATELY AND CLEANED UP PER VERIZON WIRELESS PROCEDURES.
5. BASETANK - CONTAINMENT
 - DOUBLE WALL
 - 125% ENGINE FLUID CONTAINMENT AND ALARMS OF ALL GENERATOR LIQUIDS
 - FUEL LEVEL SENDER AND VISIBLE LEVEL GAUGE
 - RUPTURE DISCHARGE ALARM
 - EMERGENCY VENTS
 - CHECK VALVE (INLET AND RETURN)
 - FM FUSIBLE LINK (165T) SHUTOFF
 - UL 142 LISTED
6. LEVEL 2A SOUND ATTENUATED ENCLOSURE.
7. DOORS MUST BE ABLE TO OPEN OR BE REMOVED.
8. STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
9. "A" IS THE STUB UP AREA FOR THE GND AND NEUTRAL CONNECTION.
10. 270 GALLON USABLE CAPACITY BASETANK STANDARD WITH GENERATOR.
11. GENERATOR MUST BE GROUNDED.

CONCRETE PAD SECTION

SCALE: 1" = 1'-0"

RECOMMENDED ELECTRICAL STUB-UPS (SEE PLAN VIEW)	
DESCRIPTION	INSIDE BASE
AC LOAD LEAD CONDUIT	A
1. ADDITIONAL STUB UP AREA FOR 120VAC CFCI OUTLET, (STANDARD BLOCK HEATER, BATTERY CHARGER AND OTHER 120 VAC DEVICES)	B
2. TRANSFORMER SWITCH/ COMMUNICATIONS CONDUITS, COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING	

GENERATOR NOTES:

1. ENCLOSED GENERATOR WITH EMPTY FUEL TANK-155kg (3425 lbs). FUEL TANK WITHOUT WOODEN SHIPPING SKID-440 kg (969 lbs).
2. UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE FUEL TANK FIELD TESTING PROCEDURE SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.

126 W GERMEN DR
 TUCSON, AZ 85733

PLANNING
 ENGINEERING
 CONSTRUCTION
 MANAGEMENT

5241 EAST GERMEN DRIVE, SUITE 200
 TUCSON, AZ 85733
 PHONE: (520) 815-5533
 FAX: (520) 815-4771
www.verizonwireless.com

WORK ORDER NUMBER: 6159 SABINO CANYON
 DRAWN BY: GLE

NO.	DATE	ISSUE
0	5/29/12	PRELIMINARY
1	9/10/12	100% CD
2	11/10/12	100% SPCC UPDATE
3	1/21/13	100% ADD SURVEY

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52298
 TUCSON, AZ 85750
 PIMA COUNTY
 TUCSON, AZ 85750
 VZW PROJ# 2012731163

SITE INFORMATION

TUC SABINO CANYON
 5104 N SABINO CANYON RD
 CITY OF TUCSON
 PIMA COUNTY
 TUCSON, AZ 85750
 VZW PROJ# 2012731163

0 1 2 3
 ORIGINAL SIZE IN INCHES
 SHEET TITLE

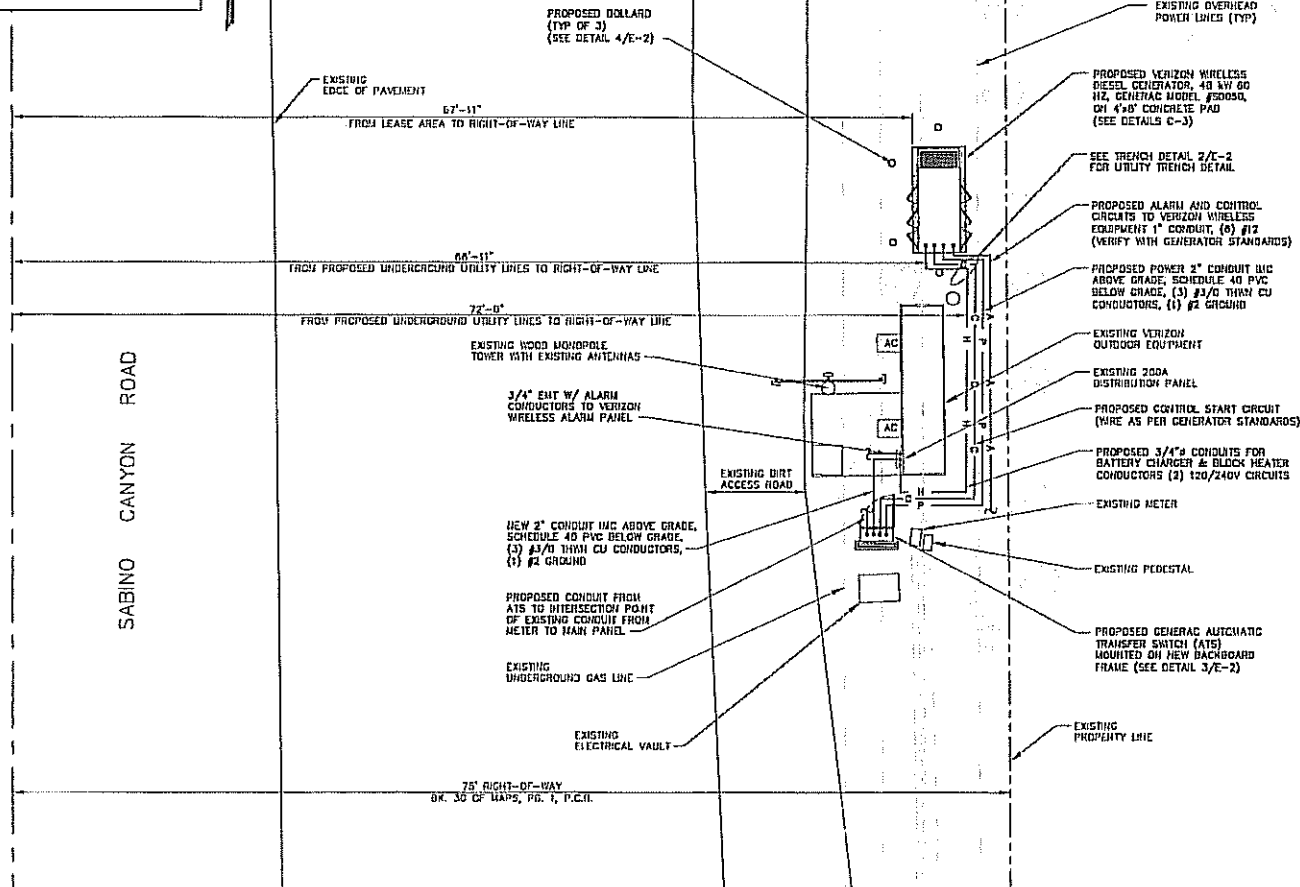
GENERATOR
 VIEWS & DETAILS

SHEET NUMBER

C-3

ELECTRICAL NOTES

1. CONTRACTOR TO VERIFY THAT EXISTING SERVICE IS GROUNDED PROPERLY PER NEC 2011.
2. CONTRACTOR TO VERIFY THAT EXISTING SERVICE CONDUCTORS ARE SIZED PROPERLY PER NEC 2011.
3. ALL CONDUIT TO BE SCHEDULE 40 PVC BELOW GRADE, IMC ABOVE GRADE. EMT ACCEPTABLE IN DOCKERS.
4. WHEN ATS IS ORDERED FROM GENERAL, IT SHALL BE SPECIFIED TO BE THE VERIZON WIRELESS APPROVED 200A ATS WITH INUILT-IN SURGE PROTECTION DEVICE (SPD).
5. SINGLE-SIDE SERVICE 480V GENERATOR REQUIRED FOR THIS SITE MUST BE ORDERED WITH (6) WEEKS LEAD TIME.
6. GENERATOR FAULT CURRENT WILL BE GREATER THAN OR EQUAL TO EXISTING FAULT CURRENT (ELECTRICAL CONTRACTOR VERIFY IN FIELD).



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

verizon wireless
120 W. GILBERT DR.
TUCSON, AZ 85713

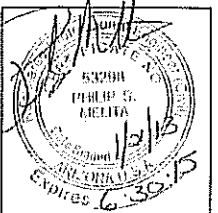
TECHNICAL
Verizon Wireless & Service Center, Inc.
1541 South McDowell Drive, Suite 200
Tucson, AZ 85713
Phone: (520) 319-1333
Fax: (520) 319-1333
www.verizonwireless.com

WORK ORDER NUMBER: 8159.SABINO CANYON
DRAWN BY: GLE

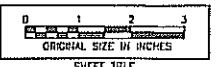
NO.	DATE	ISSUE
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CITY OF TUCSON
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ELECTRICAL SITE PLAN

SHEET NUMBER
E-1

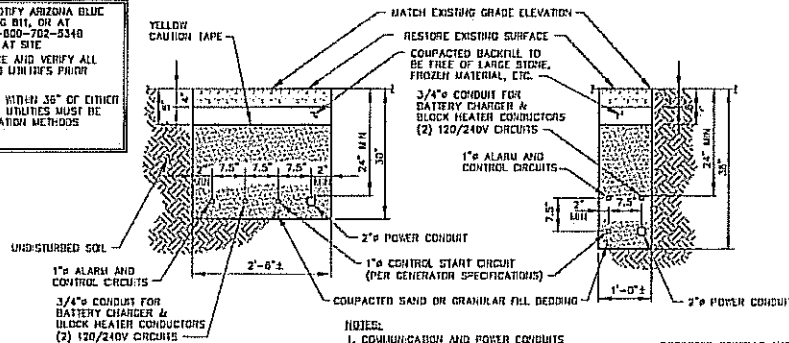
GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL COMPLY WITH UTILITY'S ELECTRICAL SERVICE SPECIFICATIONS, OBTAIN A COPY AS NEEDED.
- DO NOT THE SERVICE NEUTRAL TO THE OVERCURRENT PROTECTIVE SYSTEM WITH A MINIMUM OF #2/0 AND BARE COPPER CONDUCTOR.
- EMERGENCY POWER RECEIPTABLE PER VERIZON WIRELESS REQUIREMENTS.
- THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
- ADD FLASH HAZARD WARNING SIGNS
PER NEC ARTICLE 110.16, EACH OF THE FOLLOWING DEVICES SHALL HAVE A PERMANENT LABEL OR SIGN AFFIXED WARNING QUALIFIED PERSONS OF POTENTIAL ARCH FLASH HAZARDS: SERVICE OUTER-BODIES, METER ENCLOSURES, DISCONNECTS, TRANSFORMERS, DISTRIBUTION PANEL BOARDS, ANY OTHER DEVICES THAT ARE INSTALLED AND ARE SPECIFIED IN NEC ARTICLE 110.16. THIS LABEL OR SIGN SHALL MEET THE GUIDELINES FOR SAFETY SIGNS SPECIFIED IN THE CURRENT EDITION OF ANSI Z535.4.
- CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING CONDITIONS BEFORE BEGINNING WORK.
- ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
- ALL WORK TO BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK.
- ALL BRANCHED CIRCUIT CONDUCTORS SHALL BE COPPER TYPE "TH," #12, AND #10 SEQU. 10 AND LARGER STRANDED.
- CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE VERIZON WIRELESS PROJECT MANAGER UPON COMPLETION OF THE JOB.
- ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANELBOARDS, CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
- PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE CONTRACTOR SHALL VERIFY EXISTING LOCATIONS AND REQUIREMENTS ON THE JOB, AND BY REFERENCE TO ENGINEER'S AND CONTRACTOR SUPPLIER'S DRAWINGS. SHOULD THERE BE ANY QUESTIONS OR PROBLEMS CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTION FROM THE VERIZON WIRELESS PROJECT MANAGER SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND COORDINATE ALL INTERCONNECTION REQUIREMENTS WITH LOCAL UTILITY AS NECESSARY.
- THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, STATE OF ARIZONA ELECTRICAL SAFETY CODE, ALL CODES AND ORDINANCES AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- NO PLUMBING IS BEING INSTALLED WITH THIS PROJECT.
- NO MECHANICAL ITEMS ARE BEING INSTALLED WITH THIS PROJECT.
- COORDINATIONS
PER NEC 2011 ARTICLE 700.27, "EMERGENCY SYSTEM(S)" OVERCURRENT DEVICES SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY SIDE OVERCURRENT PROTECTIVE DEVICES.
"EXCEPTION: SELECTIVE COORDINATION SHALL NOT BE REQUIRED BETWEEN TWO OVERCURRENT DEVICES LOCATED IN SERIES IF NO LOADS ARE CONNECTED IN PARALLEL WITH THE DOWNSTREAM DEVICE."

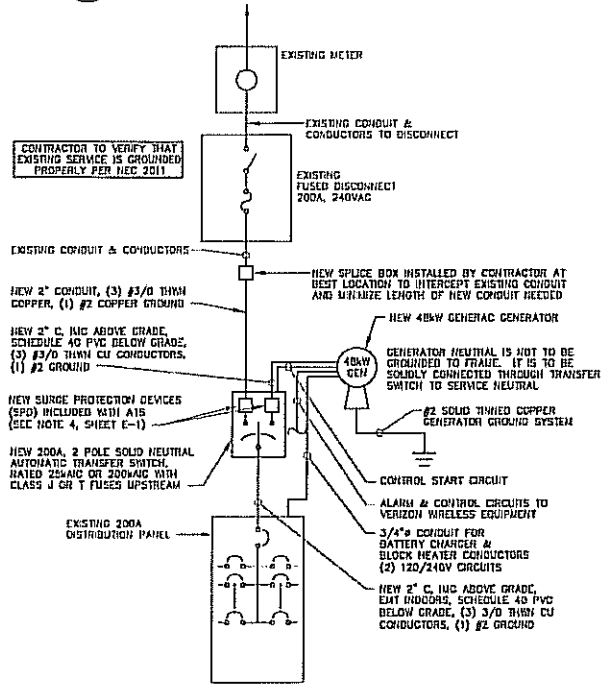
ABBREVIATIONS

A	AUSEPARE	W	WIRE
C	CONDUIT	WP	WEATHERPROOF
END	CIRCUIT	Ø	PHASE
KWH	KILOWATT HOUR	TGB	TOP GROUND BAR
P	POLE	MGB	MASTER GROUND BAR
SN	SOLID NEUTRAL	BGB	BOTTOM GROUND BAR
SW	SWITCH	GR	EXISTING GROUND BAR
V	VOLT		

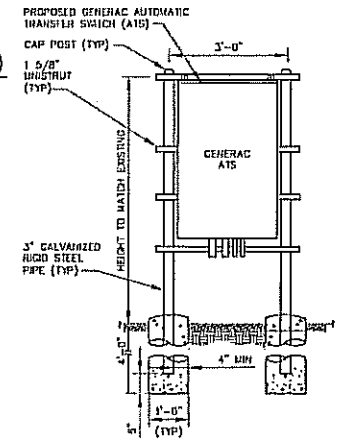
- CONTRACTOR SHALL NOTIFY ARIZONA BLUE STAKE, INC. BY CALLING 811, OR AT TELEPHONE NUMBER 1-800-702-5349 PRIOR TO EXCAVATION AT SITE.
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- ALL EXCAVATION WORK WITHIN 36" OF OTHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS.



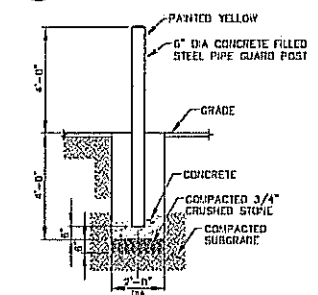
2 UTILITY TRENCH DETAIL (OPTIONS 1 & 2)
SCALE: 1" = 1'-0"



1 SINGLE LINE DIAGRAM
SCALE: N.T.S.



3 BACKBOARD FRAME
SCALE: 3/4" = 1'-0"



4 BOLLARD DETAIL
SCALE: 1/2" = 1'-0"

Verizon Wireless
120 W DENISE DR
TUCSON, AZ 85710

TECHNICAL
1. PLAN
2. ELEVATION
3. SECTION
4. DETAIL
5. ASSEMBLY

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 01/11/13
PROJECT: 2012731163

NO.	DATE	ISSUE
0	8/28/12	PRELIMINARY
1	9/10/12	100% CD
2	11/10/12	100% SPEC UPDATE
3	1/21/13	100% ADD SURVEY

WORK ORDER NUMBER	DRAWN BY
6189-SABINO CANYON	GLE

UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN BEARING THE SEAL OF A LICENSED ENGINEER OR LAND SURVEYOR IS A VIOLATION OF THE STATES LICENSING REGULATIONS.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL LABELED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

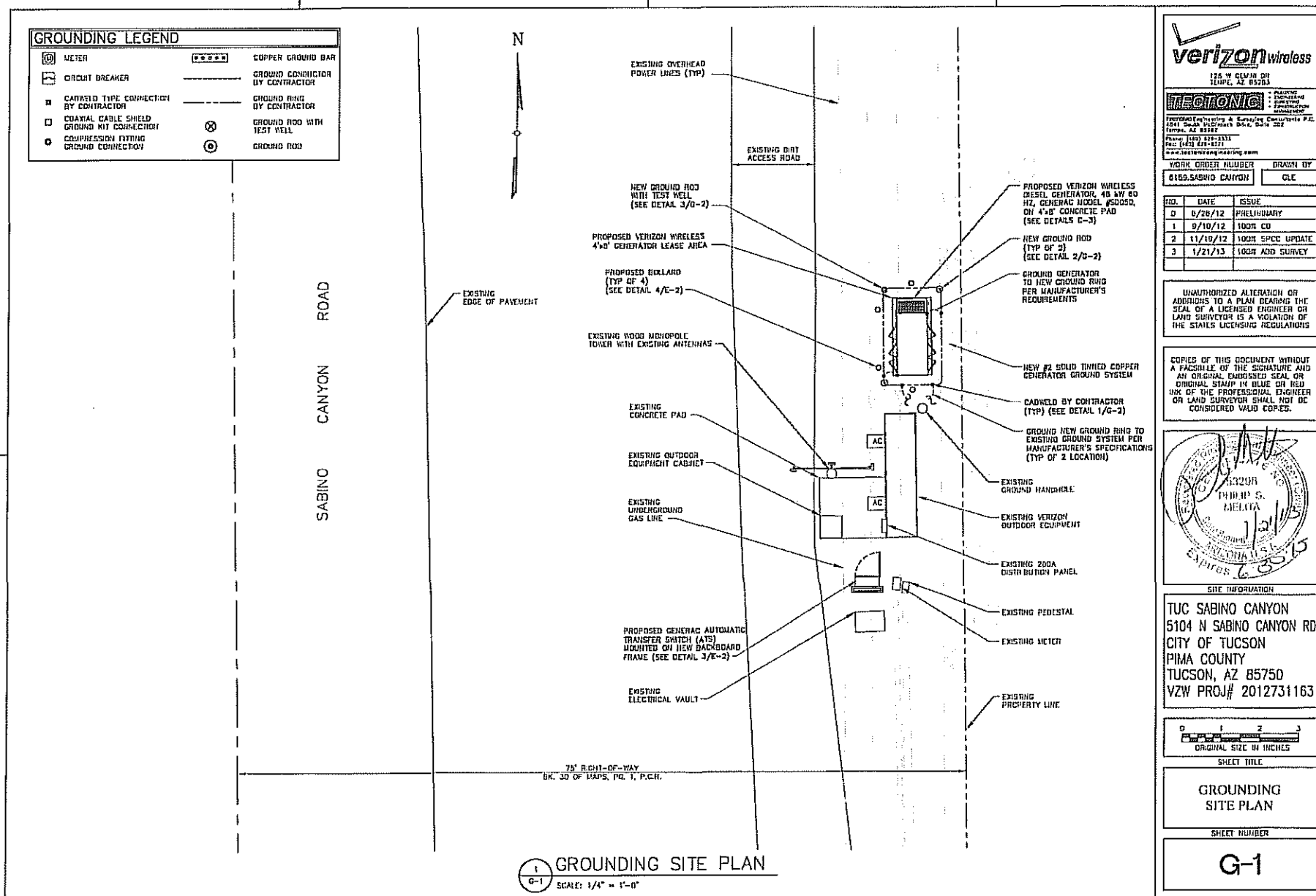


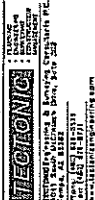
SITE INFORMATION
TUC SABINO CANYON
5104 N SABINO CANYON RD
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85750
VZW PROJ# 2012731163

0 1 2 3
ORIGINAL SIZE IN INCHES

ELECTRICAL NOTES
DETAILS & SINGLE
LINE DIAGRAM

SHEET NUMBER
E-2

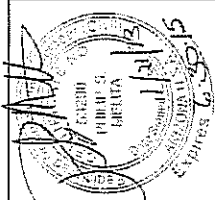




WORK ORDER NUMBER	6159-SABINO CANYON		
DRAWN BY	GLE		
LOG	DATE	ISSUE	
0	6/28/12	PRELIMINARY	
1	9/10/12	100% CD	
2	11/10/12	100% SPCC UPDATE	
3	1/21/13	100% ADD SURVEY	

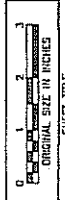
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ADDITIONAL INFORMATION

TUC SABINO CANYON
5104 N SABINO CANYON RD
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85750
JZW PROJ# 2012731163



GROUNDING NOTES & DETAILS

DECLINE LEADS

2-6

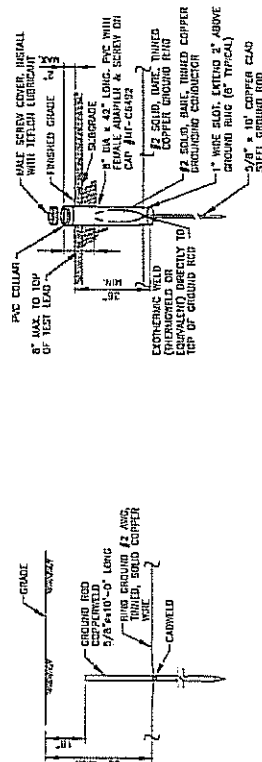
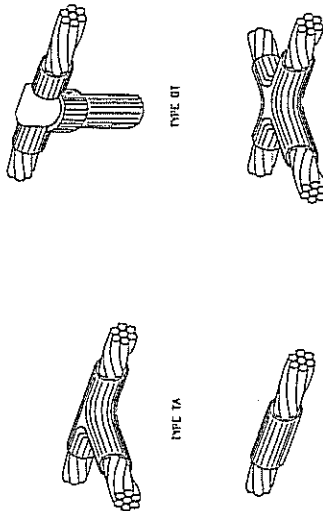
1. EGR - (EXTERIOR GROUND RING) THE GENERATOR GROUNDING SYSTEM SHALL BE INSTALLED BY CONNECTION, GROUND LEADS OF SUFFICIENT LENGTH SHALL BE PROVIDED FOR THE FOLLOWING:

- A. TWO (2) GROUND LEADS TO THE EXISTING GROUND RING.
 - B. TWO (2) GROUND LEADS TO THE VENTHEN SHIELD ON EQUIP. GROUND RING.
 - C. GROUND LEADS SHALL BE PROVIDED FOR EACH MECHANICAL UNIT.
 - D. GROUND LEADS SHALL BE PROVIDED FOR THE ELECTRICAL BRACKETING AS AT BUILDING.
 - E. ONE (1) GROUND LEAD SHALL BE GIVEN BASED.
2. GROUND RING - CONTRACTOR SHALL PROVIDE A GROUND RING PER VENTHEN UNLESS SPECIFIED. THE GROUND RING MUST BE INSTALLED TO DEPTH 30" WITHOUT GROUNDS SPACED "TWO" IN" AND IN EACH CORNER. 2" THINED SOLD SHALL BE RESPONSIBLE. TWO (2) INCHES DAMAGE THAT MAY BE CAUSED BY ANY EXISTING GROUND RING DURING THE INSTALLATION OF THE NEW GROUND RING.
 3. REINFORCEMENT OF SYSTEM - 24" HOURS NOTICE SHALL BE GIVEN TO VENTHEN REPRESENTATIVE OF THE SYSTEM AND TO WHOM THE EXISTING FOLD MECHANICAL VENTHEN A THREE ELECTRIC FOLD OF POTENTIAL TEST IS REQUIRED WITH AN EXPECTED RESISTANCE OF 100 OHMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE TEST UNTIL MOST CAUTIONING CONTRACTOR IS REQUIRED.
 4. EXISTING BELOW GROUND DRAINING SYSTEM IS BASED ON PHOTOGRAPHICAL DRAINING SYSTEMS THAT CELLULAR DATES OF THIS NATURE AS WELL AS TIED SHALL VERIFY THAT THE DRAINING SYSTEM IS IN PLACE AND SHALL VERIFY THE EXISTING FOLD OF THE DRAINING SYSTEM USING SURFACE MARKING METHOD. SHALL CAREFULLY EVALUATE TO EXISTING DRAINING CONDUCTION. USE PHOTOGRAPHICAL EVIDENCE TO VERIFY THE EXISTING DRAINING SYSTEM. PHOTOGRAPHIC EVIDENCE SHALL BE SUBMITTED TO THE CONTRACTOR FOR REVIEW.

1. CONTRACTOR SHALL COMPLY WITH VERIZON WIRELESS CELL SITE GROUNDING & BONDING SPECIFICATIONS. IN THE EVENT THAT DRAWINGS CONFLICT WITH VERIZON WIRELESS SPECIFICATIONS, VERIZON WIRELESS SPECIFICATIONS SHALL GOVERN.
2. ALL DETAILS ARE SHOWN IN GENERAL. TERMS, ACTUAL GROUNDING INSTALLATION AND MOUNTING MAY VARY DUE TO SITE SPECIFIC CONDITIONS, KIT GROUND MAY BE REQUIRED.

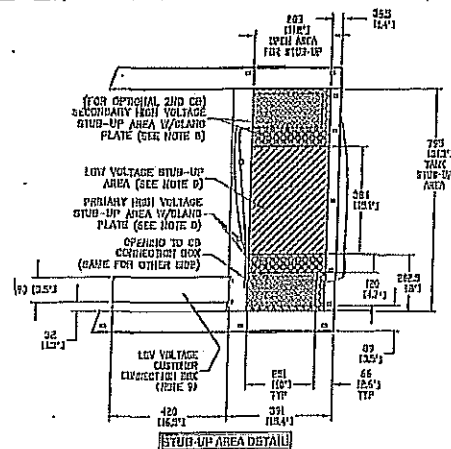
1. GROUND RODS SHALL BE CORREN Q40 STEEL, 5/8" x 1' LONG.
2. INSTALL GROUNDING AND BONDING CORDING WITH SUFFICIENT SLACK TO AVOID BREAKING DUE TO SETTLEMENT AND MOVEMENT OF CONDUITS AT ATTACHED POINTS.
3. RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS MEASURED BY THE FOLLOWING METHOD: A. GROUND RODS ARE INSTALLED WITH 10' OF EXPOSED LENGTH AND 16 FEET APART.
4. ALL GROUNDING CONDUITS SHALL BE ULL LISTED FOR THEIR PURPOSE.
5. ALL GROUNDING CONDUCTIONS TO GROUND BARS SHALL BE ULL 467 LISTED, NON-FLAMMABLE COMPRESSION TYPE.
6. ALL CONDUITS TO GROUND BARS SHALL BE COATED WITH ANTI-RODENT COMPOUND.
7. PROVIDE ONE ONE KIT 1 lb. HUMMER TEST ON ALL CONDUITS.
8. ALL EXTERIOR GROUND BARS SHALL BE GALVANIZED STEEL.

SCALE: N.T.C.



GROUND ROD DETAIL

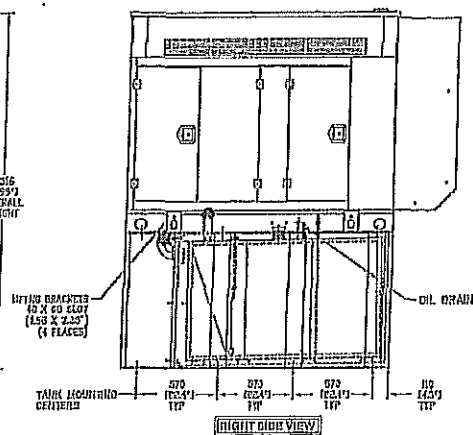
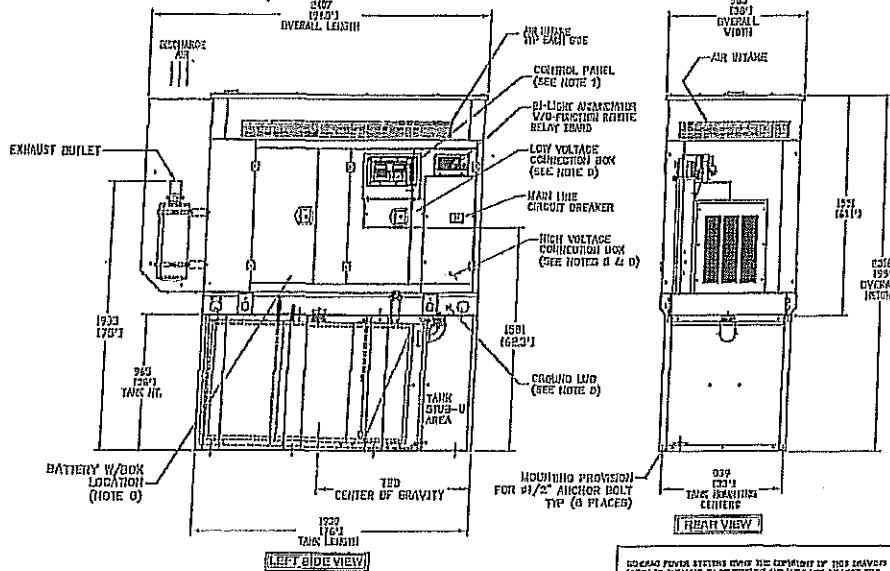
GROUND ROD W/ TEST WELL DETAIL



REQUIREMENT ELECTRICAL WIND-UPS (SEE DETAILED VIEW & TOP VIEW)	
DESCRIPTION	WINDING
HIGH VOLTAGE SHUT-DOWN AREA 1) NO LOAD LEAD COILANT AREA, 2) 120/240 VAC FROM UTILITY FEEDS CRITICAL LOADS SUCH AS OXY GENATOR, BLACK HEATER, STEAM GENERATOR AND OTHER 120/240 VAC DEVICES. (CLAMP PLATE INCLUDED)	
LOW VOLTAGE SHUT-DOWN AREA 1) TRANSFER SWITCH/ COMPENSATION CONTROLLER COMMUNICATING WITH A-WIRE GRAFT MUST NOT BE RUN IN CONDUIT WITH AO WIRING.	
(SEE NOTE B)	

- NOTES:
1. CONTROL PANEL W/ BATTERY CHARGER, THREE PHOTO CONN COUPLER FOR CHARGE, PANEL IS NOT THE ONLY CHARGE CHARGER.
2. 1600V TYPICAL FROM BUS BAR TO GENERATOR.
3. 12 VOLT NEGATIVE GROUND SYSTEM.
4. GENERATOR MUST BE STOPPED IMMEDIATELY IF OVERHEATING OCCURS.
5. GENERATION LOSS - EMERGENCY STOP STOPPED LOOSE WITH GENERATOR.
6. CHECKING OF GRAMMY & HEIGHT LIGHT MUST EXIST DUE TO UNIT OFFLINE.
7. SWD-UPS, BASE TANK REQUIRES ALL SWD-UPS TO BE IN THE REAR TANK SHUT-DOWN AREA.
8. LOCATION OF SHUT-DOWN AREA INCLUDES THE AIR LOCK LEAD CORRIDOR TO THE MAIN LIFE SUPPORT BREAKERS (GAL), THE INTERNAL CORRIDOR, AND AIRWAY 150/210V POWER SECTION.
9. CONTINUOUS POWER SUPPLY TO BOTTOM OF LOW VOLTAGE CATALYST COMPOSITION BOX HAS BACKUP FOR 1 1/2 AND 3/4 HOUR CONTINUED FLOW.
10. ALLOW ALL TYPE OF DISCHARGE AIR AND EXHAUST, GAS SPEED SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
11. MUST ALLOW FREE FLOW OF INTAKE AIR, BE USED SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTIONS.
12. 4. ENCLOSED TESTS - GENERATOR SET MUST BE INSTALLED SUCH THAT DISCHARGE AIR IS NOT REGENERATED.
13. OPEN CASE - CURRENTLY NO PROVISIONS TO REMOVE SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE HARBOR IS NOT REGENERATED.
14. IT IS THE INSTALLATION TECHNICIAN'S RESPONSIBILITY TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
15. THE USER MUST OBSERVE CERTAIN STANDARDS WITH GENERATOR.
16. UNIT IS SUPPLIED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AT THE ENGINE RETURN DISC AND FUEL TANK. THE USER MUST BE RESPONSIBLE TO FACILITATE PROPER CONNECTION OF THE FUEL LINES.
17. FOR INFORMATION REGARDING CONCERNING THE FUEL SUPPLY AND RETURN LINE PRIOR TO THE START OF THE OPERATION, SEE THE OPERATING PROCEDURE (OCCUR) OFFICE OF THE TASK FORCE VECTOR HQ, WHICH IS SHIPPED WITH THIS EXCHANGE.
18. SEE DRAWING FOR DETAILS OF FRESHMAN. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO INSUFFICIENT FOR SERVICE.

HEIGHT DATA (INCLUDES WOODEN CHIFFINQ SKID)
ENCLOSED GENERATOR WITH EMPTY FUEL TANK -- 17000 (1760 lbs)



RESEARCH POWER SYSTEMS UNDER THE SUPERVISION OF THIS DEPARTMENT
WHICH IS SUPPLIED BY CONTRACTORS AND MUST NOT BE USED FOR
ANY PURPOSE OTHER THAN FOR WHICH IT IS DESIGNED WITHOUT THE
EXPRESS WRITTEN PERMIT OF CAUSEWAY POWER SYSTEMS.

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INSTALLATION D4.5L G17 50KW
ENCLOSED LEVEL 2A
WITH 3 FT 210 GALLON
BASE TANK

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

FILE	0J8316A.DWG		SIZE	F
SCALE	NTS	FIRST USE	0062910	
DWG NO.	0J8316A			REV A

Verizon Spill Prevention, Containment & Countermeasures (SPCC)

The most critical step in spill prevention is following and maintaining fuel storage requirements, for which Verizon standards are as follows:

Fuel Tank Specifications

- All fuel tanks are UL142 compliant/certified.
- The tanks are baffled and have a fuel gauge. The tank also conforms to local transportation requirements as it pertains to transporting fuel.
- Steel fuel tanks are rust proofed on the exterior and treated internally with an anti-corrosive oil.
- Tanks include engine supply and return fittings with dip tube on supply fitting, manual fill neck with pre-vent cap, contents gage, vent, drain, overflow, plus two extra 1" metallic NPT threaded pipe plugs.
- Tanks have an emergency (pressure relief only) vent to prevent the tank from being over-pressurized.
- Leak sensors are incorporated into the containment systems and are reportable in real time through the wireless network to the VZW Network Operations Center (NOC) 24hrs/day 365 days/year.
- Tanks have a direct reading mounted fuel level gauge - clearly visible during fueling (i.e., visible to the person filling the tank). The fuel gauge will be set to read full at 90% full.
- A name-plate is added to the tank that shows the capacity in gallons (i.e., gallons)
- Each tank system has the following fuel shut-off features:
 - An FM-approved fusible link fire operated safety shut-off valve in the fuel supply line.
 - Generator has a complete containment system (125% minimum) that prevents any liquid from leaving the equipment space.
 - Containment is capable of collecting any system fluid that may leak from generator unit, piping, appurtenances or tank. Fluids include diesel fuel, coolant and/or oil.
- Tank and secondary containment are inspected monthly. Alarms for containment and leak detection are tested semi-annually to ensure NOC receives the alarm and calls out response number within 5 minutes of receiving alarms.

Refueling Process:

Tank truck fuel delivery procedures:

- Gauge AST and check the level gauge to prevent tank overfill.
- Set parking brake and use chock blocks to prevent movement; inspect fittings and fueling hose for damage.
- Place drip pans under valve-hose fitting connections.
- Monitor the liquid level in the receiving tank during transfer to prevent tank overfill.
- If an oil spill occurs, the spill kit will be used to contain the spill. Main spill kit is located opposite the fuel dispensers at the fuel storage and transfer area.
- Do not top off tank after automatic shut-off.
- Refueling company to transfer all waste into waste oil tote: Transfer all waste oil into the tote fill port using a funnel. If an oil spill occurs, the spill kit in the shop will be used to contain the spill.

In the event secondary containment leaks oil:

Step 1: Stop the spill

VZW to call 800 number posted on every generator for spill response team to mobilize. All ignition sources are to be turned off, de-energized, removed, or disabled immediately. The leak or spill should be stopped by properly qualified and equipped personnel using approved putty, dowel rods, and or similar materials. Turn off nozzles or valves from the leaking container, if it can be done safely.

Step 2: Contain and recover the spill.

If the spill or leak cannot be stopped, emergency response team will deploy spill containment barriers, drip pans, floor barriers, and or catch basins to contain spilled liquids. Use of sorbent materials such as socks, pads, and chemical solidifiers will be used to contain any fuel not captured by deployed barriers, drip pans, and catch basins. Note that sorbents do not make petroleum nonflammable, so ignition sources are to be left off, disengaged, disabled, or de-energized.

Step 3: Collect the contaminated sorbent.

Emergency response team will collect all recovered spill material, pads, and sorbent chemicals into chemically neutral and approved collection drums for disposal per EPA requirements, along with all applicable documentation related to the recovery and disposal of the chemicals filed with local, State, and Federal authorities.

Step 4: Secure the waste.

All waste generated from the spill site, including all soils that were removed due to contamination will be transported by the emergency response team to a State and EPA qualified chemical disposal company. The emergency response company will retain copies of, and provide original documents to Verizon Wireless, of all documents, forms, reports, and incident details.