



Contract Number: CTN. IT-CMS140044-10
Effective Date : 9-3-13
Term Date : 7-4-15
Cost : ✓
Revenue : ✓
Total : NTE:
 Action 4-1-15
Renewal By :
Term : 7-4-15
Reviewed by:

BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: September 3, 2013

ITEM SUMMARY, JUSTIFICATION &/or SPECIAL CONSIDERATIONS:

The Tenth Amendment To License between Pima County and Alltel Communications of the Southwest Limited Partnership, replaces Exhibit C (modifications to Site B, 6411 North Foothills Drive) 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 Tenth 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 1:13

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	
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IMPACT:

IF APPROVED:

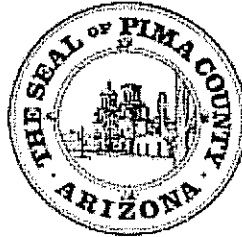
Alltel Communications of the Southwest Limited Partnership dba Verizon Wireless will install a back-up diesel generator to their existing facility at 6411 North Foothills Drive to enhance/improve telecommunication services to Pima County residents and comply with Order on Reconsideration FCC 07-177 dated 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 6411 North Foothills Drive 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>10</u>
This number must appear on all invoices, correspondence and documents pertaining to this contract.	

**PIMA COUNTY
TENTH AMENDMENT
TO LICENSE**

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

THIS TENTH 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 Tenth Amendment to License, Licensor agrees to modifications to Site B (6411 N Foothills Drive) as represented on Revised Exhibit C. 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 Tenth Amendment to License on the dates written below.

PIMA COUNTY:

Chair, Board of Supervisors

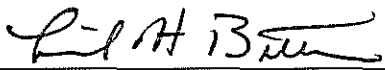
Date

ATTEST:

Clerk of the Board of Supervisors

Date

APPROVED AS TO CONTENT:

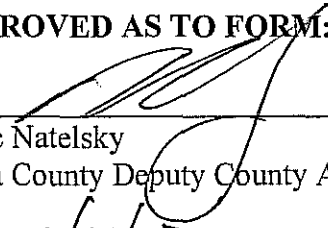


Lionel H. Bittner
Pima County Chief Information Officer

8/12/13

Date

APPROVED AS TO FORM:



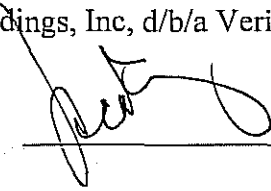
Marc Natelsky
Pima County Deputy County Attorney

2/11/13.

Date

LICENSEE:

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

By: 

Name: Jack Tang

Title: Executive Director-Network

(Acting VP Network West Area)

Date: 7/16/13

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

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF (1) 4'X8' GENERATOR PAD, (1) 40 KW DIESEL GENERATOR, AND (1) AUTOMATIC TRANSFER EQUIPMENT CABINET.

SPILL PREVENTION CONTROL
AND COUNTERMEASURE

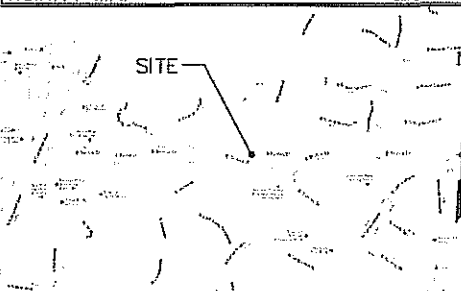
THE PROPOSED ABOVE GROUND GENERATOR FUEL TANK CAPACITY IS 210 U.S. GALLONS IN WHICH THE SITE IS NOT SUBJECT TO SPCC RULE PER EPA. SPCC RULE REQUIRES A MINIMUM OF 1,320 U.S. GALLONS FOR ABOVE GROUND FACILITIES.

ARIZONA 811
Arizona Blue State, Inc. 

Call before you dig.

VICINITY MAP

SCALE: N.T.S.



DRIVING DIRECTIONS:

FROM TEMPE OFFICE.

1. HEAD WEST ON W CEDAR DR TOWARD S ASH AVE
2. TURN LEFT ONTO S ASH AVE
3. TURN RIGHT ONTO SUN CIRCLE TRAIL
4. TAKE 1ST LEFT ONTO S MYRINE DR
5. TURN RIGHT ONTO W ELLIOT DR
6. TURN LEFT TO MEET ONTO W 10TH F TOWARD TUSCON
7. CONTINUE ON 10TH F FOR APPROXIMATELY 0.715 MILES
8. TAKE EXIT 250 TOWARD GRANDE GROVE RD
9. MERGE ONTO I-10 FRONTAGE RD
10. TURN LEFT ONTO W GRANDE GROVE RD
11. TURN RIGHT ONTO S MYRINE
12. TURN LEFT TO SIEG OF MYRINE DR
13. TURN LEFT ONTO N FOOTHILLS DR
14. SITE IS LOCATED ON LEFT SIDE OF ROAD.

REVISÉD EXHIBIT C

verizon[®]wireless SITE B

TUC SUNRISE & CAMPBELL

6411 N. FOOTHILLS DRIVE
TUCSON, AZ 85718
CITY OF TUCSON
PIMA COUNTY

GENERATOR ADDITION

PROJECT SUMMARY

SITE NAME: TUC SURVISE & CAMPODOL
ADDRESS: 6411 N. FOOTHILLS DRIVE
TUCSON, AZ 85718

EWI SITE INFORMATION:

FIRE: (520) 701-5760
RESCUE: (520) 701-5760
POLICE: (520) 701-4444

TAX MAP PARCEL ID:
ZONING CLASSIFICATION:
MUNICIPALITY:

100-01-7130
-
CITY OF TUCSON/PIMA COUNTY

STRUCTURE TYPE:
TOWER COORDINATES (HAD BS):
GROUND ELEVATION (NAV 80):

WOOD POLE
N 32° 10' 32.0"
W 110° 52' 20.0"
2,717.1'E AMSL

PROPERTY OWNER:

PIMA COUNTY GVT - REAL PROPERTY DIVISION
1313 S. UNION ROAD
TUCSON, AZ 85713

APPLICANT:

TECTONIC ENGINEERING FOR VERIZON WIRELESS
4041 S. UDOINSTEAD DRIVE, SUITE 302
TEMPE, AZ 85282
COLMAN BURKE
(510) 441-3974

CONTACT PERSON:
CONTACT PHONE:

TECTONIC ENGINEERING &
SURVEYING CONSULTANTS, P.L.L.C.
8639 MAYLAND DRIVE, SUITE 102
RICHMOND, VA 23294
PHILIP S. MELITA, P.E.
(804) 217-8504
COLMAN BURKE
(510) 441-3974

ENGINEER/DESIGNER:

ENGINEERING CONTACT PERSON:
ENGINEERING CONTACT PHONE:
LEASING/ZONING CONTACT PERSON:
LEASING/ZONING CONTACT PHONE:

ALBION CONSULTING
WAIT FORD
(602) 463-0472

GENERAL PROJECT NOTES

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE WORK PROJECT.
2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.
3. ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED BY 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 MAJOR FIELD CHANGES, REQUESTS FOR MATERIALS OR EQUIPMENTS, EXISTING CONDITIONS, AND DESIGN VIOLENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE, AND BE RESPONSIBLE FOR ACCOMPLISHING.
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 FEATURES THAT ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.
8. CONTRACTOR PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE, FOLLOWING THE FIELD INSPECTION BY A VERIZON WIRELESS REPRESENTATIVE. CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH ONE COPY OF ALL RED-LINED DRAWINGS.
9. VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECIFICATIONS, INSTALLATION, AND MAINTENANCE THEREON SHALL BE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.

PLANS CONFORM TO 2009 IBC

PLANS CONFORM TO NEC 2011

ALL PLANS SCALE TO 24' x 36'

SHEET INDEX

SHEET	TITLE	REV.NO.	DATE
T-1	TITLE SHEET	J	1/18/11
LG-1	TOPOGRAPHIC SURVEY	J	4/24/11
C-1	EXISTING SITE PLAN AND SITE PHOTOS	J	1/18/11
C-2	PROPOSED SITE PLAN AND ELEVATIONS	J	1/18/11
C-3	GENERATOR WALK & DETAILS	J	1/18/11
C-4	ROLLAD RAILS	J	1/18/11
E-1	ELECTRICAL SITE PLAN	J	1/18/11
E-2	ELECTRICAL NOTES, DETAILS & SINGLE LINE DIAGRAM	J	1/18/11
D-1	GRADING SITE PLAN	J	1/18/11
D-2	GRADING NOTES & DETAILS	J	1/18/11
SP-1	SPECIFICATION SHEET	J	1/18/11

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 REVISED AND ISSUED "FOR CONSTRUCTION"



126 W. GEMINI DRIVE
TEMPE, AZ 85283

T E C T O N I C

• PLUMBING
• ELECTRICAL
• HEATING
• CONSTRUCTION
• GUTTERING

TECTONIC Engineering & Surveying Consultants P.C.
10527 South Midway Drive, Suite 303

Temp, NJ 08762
Phone (509) 830-1216
Fax (509) 830-1216

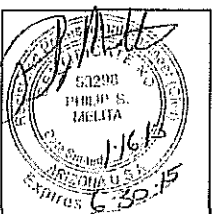
WORK ORDER NUMBER DRAWN BY

BIG SURPRISE	51L
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NO.	DATE	ISSUE
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1	9/18/12	100% CO
2	11/19/12	100% SPEC UPDATE
3	1/16/13	100% COMMENTS

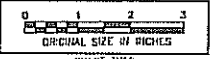
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THE STATES LICENSING REGULATIONS

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CONSIDERED VALID COPIES.



SITE INFORMATION

TUC SUNRISE&CAMPBELL
6411 N. FOOTHILLS DR
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



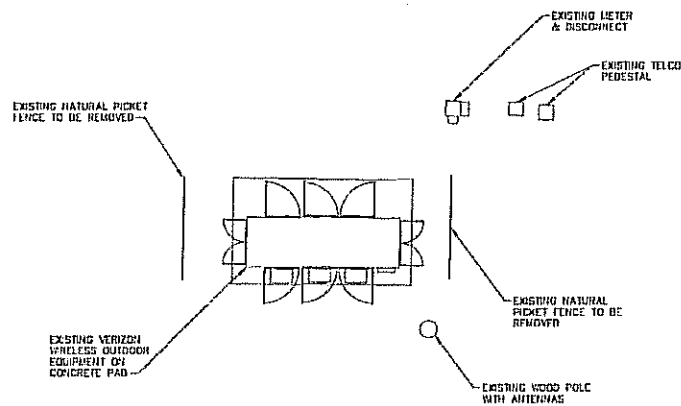
SHEET 111E

TITLE SHEET

SHEET NUMBER

T-1

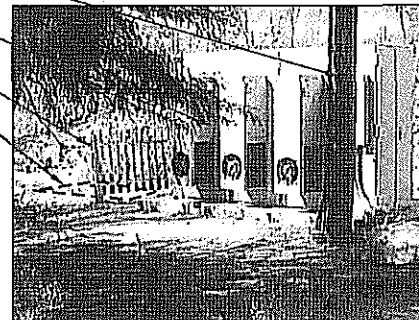
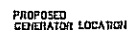
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C-1

EXISTING SITE PLAN

SCALE: 1/4"=1'-0"



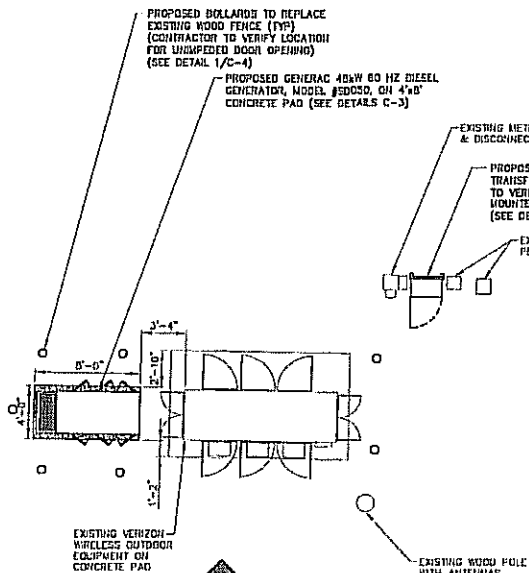
VIEW OF NEW GENERATOR LOCATION
(NORTHWEST VIEW)



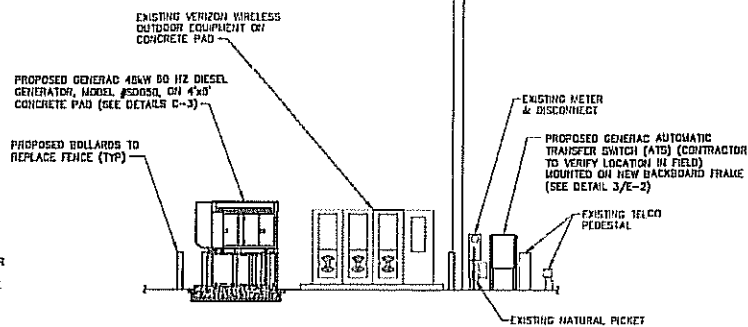
VIEW OF NEW GENERATOR LOCATION
(WEST VIEW)



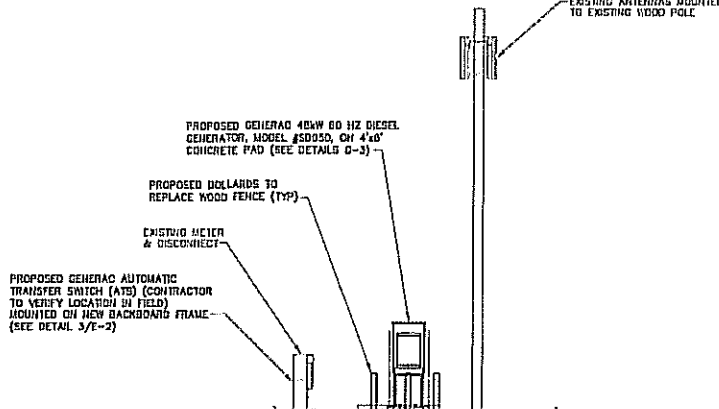
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C-2
PROPOSED SITE PLAN
SCALE: 1/4"=1'



2
C-2
PROPOSED SOUTH ELEVATION
SCALE: 1" = 5'



3
C-2
PROPOSED WEST ELEVATION
SCALE: 1" = 5'

verizonwireless

1728 W. CLARK DRIVE
TUCSON, AZ 85741

TECHNICAL

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 1/16/13

PROJECT: [Signature]
1012 South McDowell Drive, Suite 202
Tucson, AZ 85712

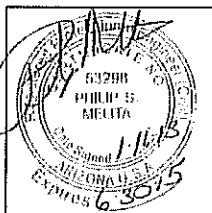
Phone: (520) 372-1013
Fax: (520) 372-1013
www.verizonwireless.com

WORK ORDER NUMBER: 6159.SUNRISE
DRAWN BY: SLL

NO.	DATE	ISSUE
0	6/10/12	PRELIMINARY
1	9/10/12	100% CD
2	11/19/12	100% SPCC UPDATE
3	1/16/13	100% COMMENTS

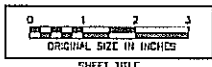
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SITE INFORMATION

TUC SUNRISE&CAMPBELL
6411 N. FOOTHILLS DR
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



PROPOSED SITE PLAN AND ELEVATIONS

SHEET NUMBER
C-2

VERIZON WIRELESS PROJECT #2012737917

NO GALLON USABLE CAPACITY TANK STANDARD WITH GENERATOR

FUEL TANK

CONCRETE PAD

GENERATOR PAD

PROPOSED 4'-6"

HACKETT'S
ANCHOR
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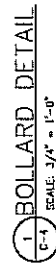
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Technical drawing of a mechanical part, likely a bracket or support, showing a cross-section with a circular hole and a rectangular cutout. The drawing is labeled with dimensions and a title block.

FUEL TANK

Journal of Management Inquiry 20(6) 798-814
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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, IUG ABOVE GRADE. (BY ACCEPTABLE INDUSTRY).
4. WHEN ATS IS ORDERED FROM GENERAC, IT SHALL BE SPECIFIED TO BE THE VERIZON WIRELESS APPROVED 200A ATS WITH BUILT-IN SURGE PROTECTION DEVICE (SPD).
5. SHIRE-SIDE SERVICE 40kW GENERATOR REQUIRED FOR THIS SITE MUST BE ORDERED WITH (8) WEEKS LEAD TIME.
6. GENERATOR FAULT CURRENT WILL BE GREATER THAN OR EQUAL TO EXISTING FAULT CURRENT (ELECTRICAL CONTRACTOR VERIFY IN FIELD).

PROPOSED BOLLARDS TO REPLACE EXISTING WOOD FENCE (TYPE) (CONTRACTOR TO VERIFY LOCATION FOR UNIMPACTED DOOR OPENING) (SEE DETAIL 1/C-4)

PROPOSED GENERAC 40kW 60 HZ DIESEL GENERATOR, MODEL #50050, ON 4'x8' CONCRETE PAD (SEE DETAILS C-3)

EXISTING VERIZON WIRELESS OUTDOOR EQUIPMENT ON CONCRETE PAD

PROPOSED 3/4" CONDUITS FOR BATTERY CHARGER & BLOCK HEATER CONDUCTORS (2) 120/240V CIRCUITS

3/4" EMT W/ ALARM CONDUCTORS TO VERIZON WIRELESS ALARM PANEL

EXISTING Y-POLE WITH ANTENNAS

EXISTING METER & DISCONNECT

PROPOSED CONDUIT FROM ATS TO INTERCEPT POINT OF EXISTING CONDUIT FROM METER TO MAIN PANEL

PROPOSED GENERAC AUTOMATIC TRANSFER SWITCH (ATS) (CONTRACTOR TO VERIFY LOCATION IN FIELD) MOUNTED ON NEW BACKBOARD FRAME (SEE DETAIL 3/E-2)

EXISTING TFLCO PEDESTAL

SEE DETAIL 2/E-2 FOR TRENCH DETAIL

NEW 2" CONDUIT IUG ABOVE GRADE, SCHEDULE 40 PVC BELOW GRADE, (3) #3/0 THHN CU CONDUCTORS, (1) #2 GROUND

EXISTING 200A DISTRIBUTION PANEL

ELECTRICAL SITE PLAN

SCALE: 1/2"=1'



verizonwireless

138 W. GILBERT DRIVE
TUCSON, AZ 85717

TELECOM

10000 E. WILLOW AVE. SUITE 100
TUCSON, AZ 85717

Phone (520) 435-1218
Fax (520) 435-1219

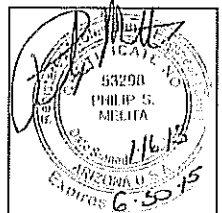
www.verizonwireless.com

WORK ORDER NUMBER: 8199.SUNRISE
DRAWN BY: SL

NO.	DATE	ISSUE
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1	9/16/12	100% CD
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3	1/16/13	100% COMMENTS

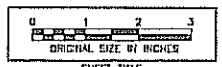
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SITE INFORMATION

TUC SUNRISE & CAMPBELL
6411 N. FOOTHILLS DR
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



SHEET TITLE

ELECTRICAL
SITE PLAN

SHEET NUMBER

E-1

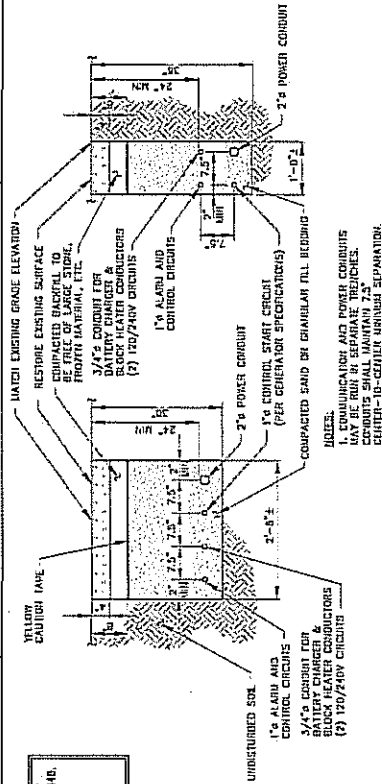
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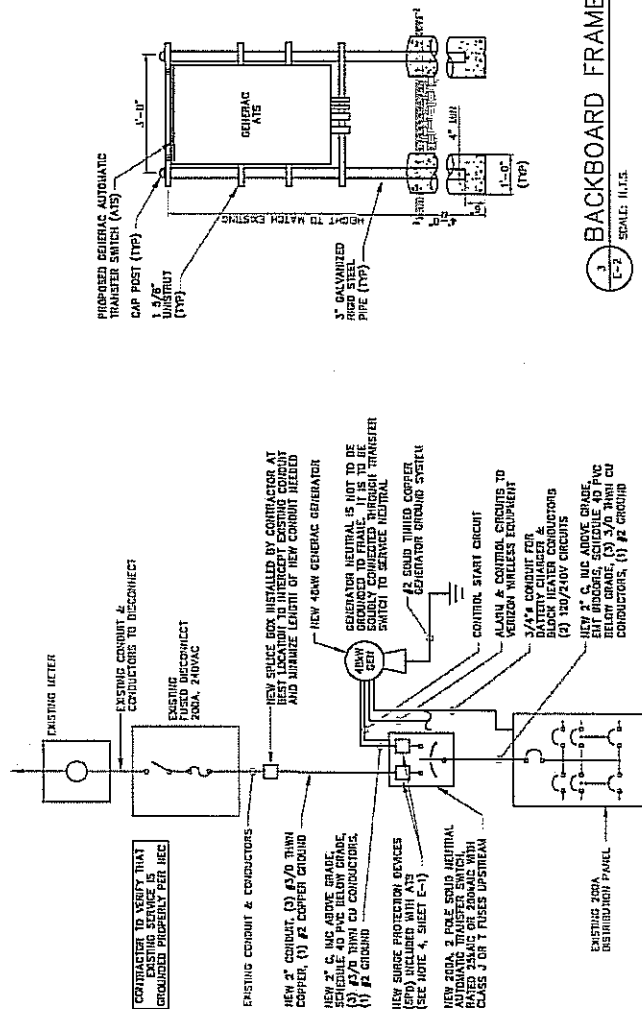
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ABBREVIATIONS	
A	ANOREXIC
C	CONDUIT
GR	GROWING
GRN	GROUND
NR	NONCATH HUNT
PC	PELLE
EN	NEUTRAL
SW	SWITCH
WT	WEIGHT
WT	WATER
WT	WEATHERPROOF
4	PHASE
168	TOP GROUND BAR
168	HASTER GROUND BAR
168	GROUND BAR
168	GROUND BAR
FOR	FASTING GROUND BAR

SCALE: 14.75.



NOTES:
1. COMMUNICATION AND POWER CONDUITS
MAY BE RUN IN SEPARATE TRENCHES.
CONDUITS SHALL MAINTAIN 7.5"
CENTER-TO-CENTER MINIMUM SEPARATION.



 SINGLE LINE DIAGRAM

BACKBOARD FRAME

SCALE: 11.15

- * CONTRACTOR SHALL NOTIFY ARIZONA ONE CALL, INC. BY CALLING 811 OR AT TELEPHONE NUMBER 1-800-782-5340, PRIOR TO EXCAVATION AT SITE
- * CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- * ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND



1100 E. CENTRAL DRIVE
TULSA, OK 74103

TECHNICAL

NAME: [REDACTED]
 TITLE: [REDACTED]
 PHONE: [REDACTED]
 FAX: [REDACTED]
 E-MAIL: [REDACTED]

DATE: 11/16/12
 TIME: 1:30 PM
 BY: [REDACTED]

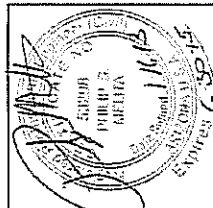
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STILL INFORMATION?

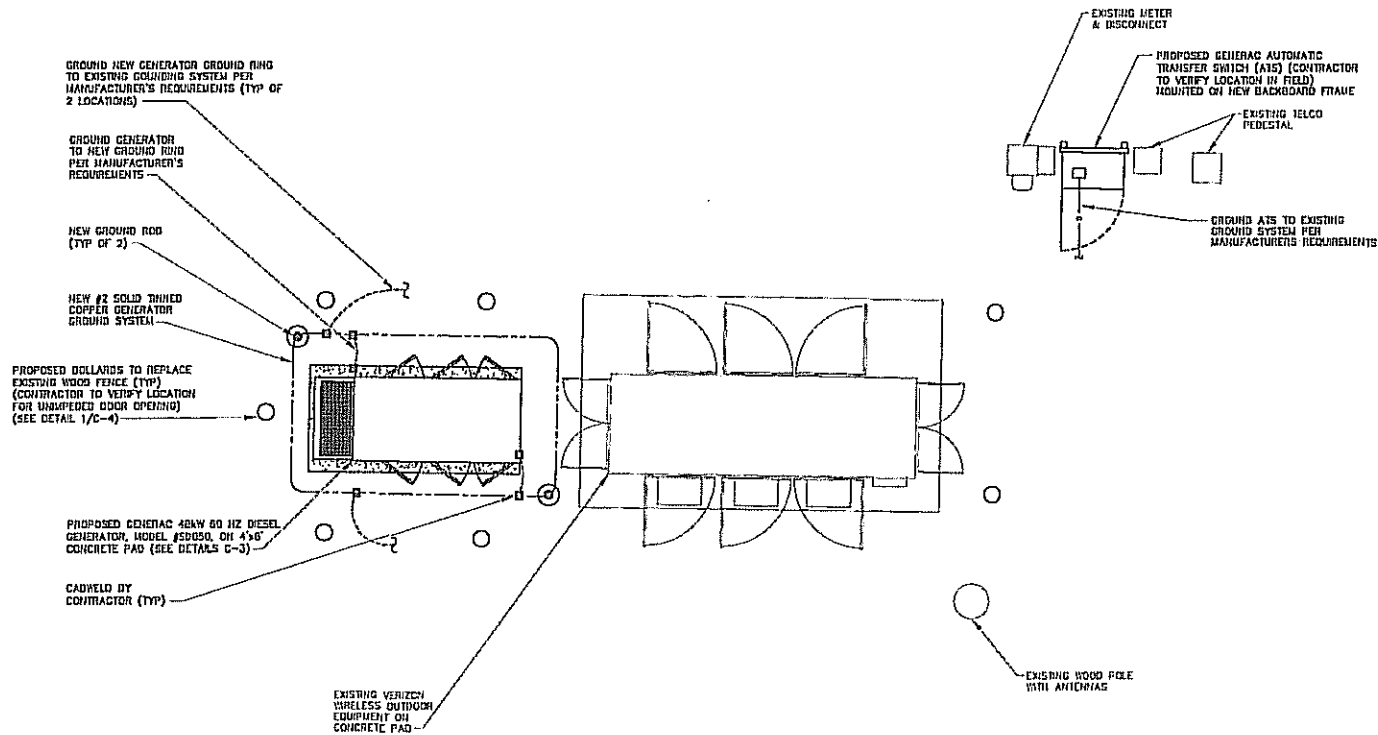
ORIGINAL SIZE 21 INCHES

**ELECTRICAL NOTES
DETAILS & SINGLE
LINE DIAGRAM**

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GROUNDING LEGEND			
	METER		COPPER GROUND BAR
	CIRCUIT BREAKER		GROUND CONDUCTOR BY CONTRACTOR
	CADMIUM TYPE CONNECTION BY CONTRACTOR		GROUND RING BY CONTRACTOR
	COAXIAL CABLE SHIELD GROUND KIT CONNECTION		GROUND ROD WITH TEST WELL
	COMPRESSION FITTING GROUND CONNECTION		GROUND ROD



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E-2
GROUNDING SITE PLAN
SCALE: 1/2"=1'

verizon wireless
126 W. GLEN DRIVE
TUCSON, AZ 85711

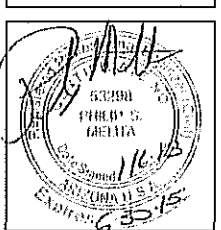
TECHNICAL
ELECTRICAL ENGINEERING & SURVEYING CORPORATION P.C.
4010 South McDowell Drive, Suite 202
Tucson, AZ 85711
Phone: (520) 834-8315
Fax: (520) 834-8315
www.technical-engineering.com

WORK ORDER NUMBER	DRAWN BY
8169.SUNRISE	SLI

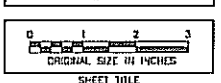
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3	1/16/13	100% COMMENTS

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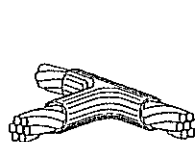
SITE INFORMATION
TUC SUNRISE&CAMPBELL
6411 N. FOOTHILLS DR
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



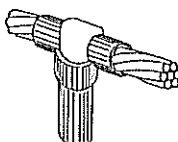
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GROUNDING
SITE PLAN

SHEET NUMBER
G-1

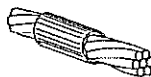
VERIZON WIRELESS SITE: TUC SUNRISE & CAMPBELL



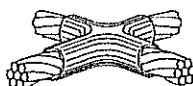
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TYPE GT



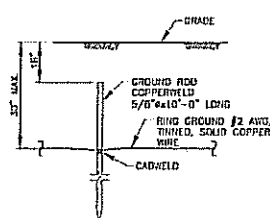
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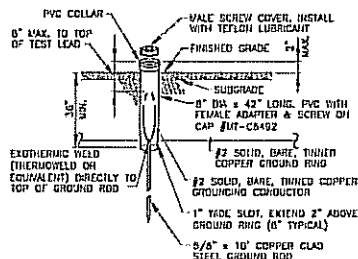
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SCALE: N.T.S.



2 GROUND ROD DETAIL

SCALE: N.T.S.



3 GROUND ROD W/ TEST WELL DETAIL

SCALE: N.T.S.

GROUNDING NOTES

- ECR - (EXTERIOR GROUND ROD) THE GENERATOR GROUNDING SYSTEM SHALL BE INSTALLED BY CONTRACTOR. GROUND LEADS OF SUFFICIENT LENGTH SHALL BE PROVIDED FOR THE FOLLOWING:
 - TWO (2) GROUND LEADS FOR THE BASE OF THE TOWER.
 - TWO (2) GROUND LEADS FOR THE TOWER BOTTOM GROUND BAR.
 - GROUND LEADS SHALL BE PROVIDED FOR EACH MECHANICAL UNIT.
 - GROUND LEADS SHALL BE PROVIDED FOR EACH CORNER OF THE BUILDING AND TWO CENTER LEADS.
 - ONE (1) GROUND LEAD SHALL BE PROVIDED FOR THE ELECTRICAL DISCONNECT AT BUILDING.
 - ONE (1) GROUND LEAD SHALL BE PROVIDED FOR THE METER BASE.
- GROUND RING - CONTRACTOR SHALL INSTALL A GROUND RING PER VERIZON WIRELESS SPECIFICATIONS. THE GROUND RING MUST BE INSTALLED TO DEPTH 30", 10' GROUND RODS SPACED "RP TO RP" AND IN EACH CORNER. #1 TINED SOLID COPPER, EXOTHERMIC WELDS ONLY BELOW GROUND. ADDITIONALLY, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE THAT MAY BE CAUSED TO ANY EXISTING GROUND RING DURING THE INSTALLATION OF THE NEW GROUND RING.
- RESISTIVITY/ECR INSPECTION - 24-HOUR NOTICE SHALL BE GIVEN TO VERIZON WIRELESS BEFORE THE COMPLETION OF THE ECR, TO ALLOW FOR AN OPEN TRENCH INSPECTION OF THE SYSTEM, AND TO WITNESS THE GROUND FIELD RESISTIVITY TEST. A THREE ELECTRODE FALL OF POTENTIAL TEST IS REQUIRED WITH AN EXPECTED READING OF LESS THAN 5 OHMS. A RESISTIVITY TEST REPORT, WITH A COPY OF THE TEST UNIT'S MOST RECENT CALIBRATION CERTIFICATION IS REQUIRED.
- EXISTING BELOW GRADE GROUNDING SYSTEM IS BASED ON PROTOTYPICAL GROUNDING SYSTEMS FOR CELLULAR SITES OF THIS NATURE AS WELL AS FIELD OBSERVATIONS OF THE ABOVE GRADE BONDING CONDITIONS. THE CONTRACTOR SHALL VERIFY THAT THE GROUNDING SYSTEM IS IN PLACE AND SHALL INDICATE EXACT ROUTING OF THE GROUNDING SYSTEM USING SURFACE MARKING METHOD. WHERE PLANS INDICATE TO CONNECT TO EXISTING GROUNDING SYSTEM CONTRACTOR SHALL CAREFULLY EXCAVATE TO EXPOSE EXISTING GROUNDING CONDUCTOR. USE CARE TO MAINTAIN CONTINUITY OF EXISTING GROUND SYSTEM WHILE PERFORMING WORK UNDER THIS CONTRACT.

GENERAL GROUNDING NOTES

- CONTRACTOR SHALL COMPLY WITH VERIZON WIRELESS CELL SITE GROUNDING & BONDING SPECIFICATIONS. IN THE EVENT THAT DISCREPANCY EXISTS WITH VERIZON WIRELESS SPECIFICATIONS, VERIZON WIRELESS SPECIFICATIONS SHALL GOVERN.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND BONDING MAY VARY DUE TO SITE SPECIFIC CONDITIONS, KIT GROUNDING MAY BE REQUIRED.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" x 10' LONG.
- INSTALL GROUND AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKING DUE TO SETTLEMENT AND MOVEMENT OF CONDUCTORS AT ATTACHED POINTS.
- RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS MEASUREMENT. ADDITIONAL GROUND RODS OR KIT GROUND SHALL BE PROVIDED TO ATTAIN THIS VALUE OR LESS. WHERE MULTIPLE RODS ARE INSTALLED THEY SHALL BE SPACED BETWEEN 8 AND 16 FEET APART.
- ALL GROUNDING CONDUCTORS SHALL BE U.L. LISTED FOR THEIR PURPOSE.
- ALL GROUND CONNECTIONS TO GROUND BARS SHALL BE U.L. 467 LISTED, IRREVERSIBLE COMPRESSION TYPE.
- ALL CONNECTIONS TO GROUND BARS SHALL BE COATED WITH ANTI-OXIDANT COMPOUND.
- PROVIDE ONE TIE HIT 1 IN. HAMMER TEST ON ALL CADWELDS.
- ALL EXTERIOR GROUND BARS SHALL BE GALVANIZED STEEL.



128 W. DEAN BLVD
TUCSON, AZ 85703



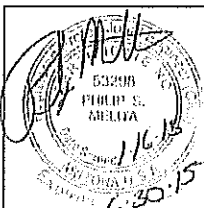
ELECTRONIC Engineering & Consulting Consultants P.C.
4000 South McDowell Blvd, Suite 202
Tucson, AZ 85703
Phone: (520) 382-1011
Fax: (520) 432-1011
www.electronicengineering.com

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6159 SUNRISE SLL

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CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



ORIGINAL SIZE IN INCHES

SHEET TITLE

GROUNDING NOTES & DETAILS

SHEET NUMBER

G-2

VERIZON WIRELESS PROJECT #2012737917

VERIZON WIRELESS SITE: TUC SUNRISE & CAMPBELL

1. CONTRACTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BARRICADES AND/OR FENCING TO PROTECT THE SAFETY OF THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BARRIERS AND RETURN ALL DAMAGE TO EXISTING OR ADJACENT PROPERTY TO ITS ORIGINAL CONDITION. THE COST OF REPAIR IS THE CONTRACTOR'S RESPONSIBILITY.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
4. EXCESS SOIL MATERIAL AND DEBRIS CAUSED BY THIS CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5. CONTRACTOR SHALL MAKE ADJUSTMENTS TO GRADING ELEVATIONS AS NECESSARY TO MAINTAIN A SITE FREE OF DRAINAGE PROBLEMS.
6. CONTRACTOR SHALL COORDINATE A CONSTRUCTION LAYOUT AREA WITH THE PROPERTY OWNER. CONSTRUCTION LAYOUT AREA SHALL BE FENCED-OFF WITH TEMPORARY (40 DAY) CONSTRUCTION FENCE. THE TEMPORARY FENCE SHALL BE CONSTRUCTED OF 6" HIGH CHAIN LINK FENCE AND IS TO BE REMOVED AT THE END OF CONSTRUCTION. EXISTING AREA IS TO BE RETURNED TO ITS ORIGINAL CONDITION AFTER FENCE REMOVAL.

3. ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE IRC & ASD 310 "DUPING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:
 A. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c) OF 4,000 PSI.
 B. CEMENT SHALL BE "LOW-ALKALI" TYPE-IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.
 C. MAXIMUM WATER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 5% TO 7%.
 D. CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY. TEST REPORT WITH ALL DATA REQUIRED FOR CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT.
 E. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 1 1/2".
 F. MAXIMUM SLOPE: $3^{\circ} \pm 1'$ (3:1) (S:V)
4. FORMWORK FOR CONCRETE SHALL CONFORM TO ASD 347. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS-C REQUIREMENTS. IN NO CASE SHALL FINISH TOLERANCES EXCEED THE FOLLOWING VALUES AS MEASURED FROM HEAT PLAN LINES AND FINISHED GRADES: $\pm 1/4"$ VERTICAL, $\pm 1"$ HORIZONTAL.
5. CHAPTER ALL EXPOSED CORNERS AND FILLET ENTRAIN FINISH 3/4" W.D.
6. CONCRETE FINISHING:
 A. SLABS: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ASD 301 SECTIONS 6.3, 6.3, AND 7.3. PROVIDE BUSHY FINISH FOR ALL OTHERS, W.D. CONCRETE NOT EXPOSED TO WEAR AND SMOOTH FINISH FOR ALL OTHERS, W.D.
5. A MINIMUM OF ONE (1) SET OF CONCRETE CYLINDERS SHALL BE TAKEN. EACH SET SHALL CONSIST OF FIVE (5) CYLINDERS. ONE (1) SHALL BE TESTED AT 7 DAYS, THREE (3) AND ONE (1) ALTERNATE SHALL BE TESTED AT 28 DAYS. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM C72, C31, AND C39.

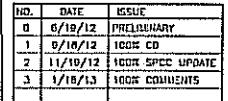
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PROJECT SCOPE OF WORK DEFINED UNDER THE REQUEST FOR PROPOSAL (RFP) FOR THIS PROJECT AND ALL ASSOCIATED ATTACHMENTS AND DOCUMENTS PROVIDED.

THE RFP AND ALL ASSOCIATED DOCUMENTS SHALL DEFINE THE COMPLETE PROJECT SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL DOCUMENTS AND SPECIFICATIONS PROVIDED FOR THE PROJECT.

ALL DOCUMENTS INCLUDED WITHIN THE PROJECT REQUEST FOR PROPOSAL ARE REQUIRED FOR THE COMPLETE PROJECT SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK (EQUIPMENT, MATERIAL, INSTALLATION, TESTING, ETC.) INDICATED IN ALL DOCUMENTS. THE RFP, VENDOR'S ISSUED NETWORK STANDARDS AND PROJECT SPECIFICATIONS AND REQUIREMENTS SHALL APPLY TO EACH OTHER. THE SIGNATURE OF THE SPECIFICATIONS AND DRAWINGS INDICATING PER DISCIPLINE IS NOT INTENDED TO IMPLY ANY KIND OF SUBSTITUTION OF EQUIPMENT OR MATERIALS. THE SIGNATURE OF THE SUBCONTRACTOR WORK AND VENDOR WORKSHEET SHALL NOT ACCEPT ANY CHANGE ORDERS FOR INTERNAL CONTRACTOR WORK ASSIGNMENTS.

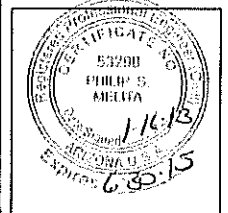
CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING ALL RFP DOCUMENTS TO THEIR SUBCONTRACTORS. ALL RFP DOCUMENTS ARE REQUIRED TO INDICATE THE PROJECT SCOPE OF WORK. PARTIAL SUBTRACTOR DOCUMENT PACKAGES ARE HIGHLY DISCOURAGED.

IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, REFERENCES AND VENDOR'S VENDOR STATEMENTS, THE VENDOR'S STATEMENTS SHALL CONTROL. THE ARCHITECT/ENGINEER SHALL BE CONTACTED FOR FORMAL INTERPRETATION OF THE REQUIREMENTS. THE CONTRACTOR SHALL BE DEEMED TO HAVE PROVIDED THE DETAILS AND VENDOR'S VENDOR STATEMENTS. ANY WORK INSTALLED IN COMPLIANT WITH THE ARCHITECT/ENGINEER INTERPRETATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO VENDOR WORKSHEET.
2. ALL LOADS MUST BE SECURED PROPERLY TO THE VEHICLE OR TRAILER. VENDOR WORKSHEET SHALL ALSO BE COSTLY IF ANY REPLACEMENTS DUE TO DAMAGE OR LOSS, WHETHER IT IS NEW OR USED.



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.

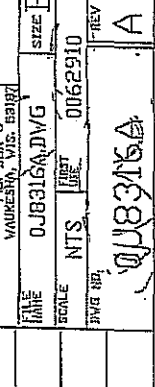
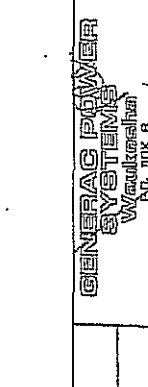
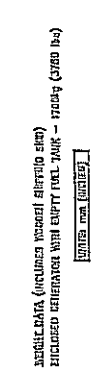
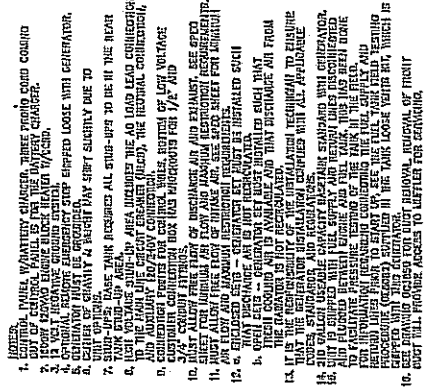


SITE INFORMATION

TUC SUNRISE&CAMPBELL
6411 N. FOOTHILLS DR
CITY OF TUCSON
PIMA COUNTY
TUCSON, AZ 85718
VZW PROJ#2012737917



SHEET TITLE
SPECIFICATION SHEET
SHEET NUMBER
SP-1

[illegible]

INSTALLATION DRAWING

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.