GG
11/7/13
Item No. 32

AN ORDINANCE 2013-11-07-0763

AUTHORIZING TWO SPRINT SPECTRUM L.P. TOWER LEASE AMENDMENTS FOR CITY TOWERS LOCATED AT 2059 WEST BITTERS ROAD, SAN ANTONIO, TEXAS 78237 IN CITY COUNCIL DISTRICT 9 AND 4531 ZARZAMORA STREET, SAN ANTONIO, TEXAS IN CITY COUNCIL DISTRICT 5.

* * * * *

WHEREAS, Sprint Spectrum L.P. entered into Standard Tower Lease Agreements for City Towers located at 4531 Zarzamora Street, San Antonio, Texas 78211 and 2059 West Bitters Road, San Antonio, Texas, respectively, on February 15, 2005 and May 4, 2000; and

WHEREAS, City staff has received an application from Sprint Spectrum, L.P. to modify its telecommunications facilities on said City Towers in accordance with the terms of the Amendments to the Standard Tower Lease Agreements ("Amendments"); **NOW THEREFORE:**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

SECTION 1. The application of Sprint Spectrum, L.P. to modify its telecommunications facilities on the above referenced City Towers and in the manner set out in the respective Amendments, is hereby approved. The City Manager or her designee is authorized to execute the Amendments attached hereto as **Exhibits A and B.**

SECTION 2. Funds generated by this Ordinance will be deposited into Fund 74001000, Internal Order 209000000023 and General Ledger 4401170.

SECTION 3: The financial allocations in this Ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance, may, subject to concurrence by the City Manager or the City Manager's designee, correct allocations to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this Ordinance.

SECTION 4. This Ordinance shall be effective immediately upon passage by eight affirmative votes; otherwise, it shall be effective on the tenth day after passage.

PASSED AND APPROVED this 7th day of November, 2013.

M A Y O R
Julián Castro

ATTEST:

Leticia M. Vacek, City Clerk

APPROVED AS TO FORM:

Michael D. Bernard, City Attorney

Agenda Item:	**32 (in consent vote: 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, , , 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 35)**
Date:	11/07/2013
Time:	11:18:38 AM
Vote Type:	Motion to Approve
Description:	An Ordinance approving two Sprint Spectrum L.P., Tower Lease Amendments for City's Towers located at the Bitters Road site and at the Zarzamora site. [Ben Gorzell, Chief Financial Officer; Hugh Miller, Director, Information Technology Services]
Result:	Passed

Voter	Group	Not Present	Yea	Nay	Abstain	Motion	Second
Julián Castro	Mayor		x				
Diego Bernal	District 1		x				
Ivy R. Taylor	District 2		x				x
Rebecca Viagran	District 3		x				
Rey Saldaña	District 4		x			x	
Shirley Gonzales	District 5	x					
Ray Lopez	District 6		x				
Cris Medina	District 7		x				
Ron Nirenberg	District 8		x				
Joe Krier	District 9		x				
Carlton Soules	District 10		x				

EXHIBIT “A”

AMENDMENT NO. 1 TO STANDARD TOWER LEASE AGREEMENT

This Amendment No. 1 to Standard Tower Lease Agreement (this "**First Amendment**"), effective as of the date last signed below ("**Effective Date**"), amends a certain Standard Tower Lease Agreement between Sprint Spectrum Realty Company, L.P., a Delaware limited partnership, successor in interest to Sprint Spectrum L.P., a Delaware limited partnership ("**Tenant**") and City of San Antonio, a Texas municipal corporation ("**City**"), dated May 4, 2000 (the "**Lease**").

BACKGROUND

WHEREAS, Tenant desires to modify its installation on the Premises by adding or swapping out antennas and other equipment, as more particularly described in Exhibit A-1 annexed hereto, and Tenant and City desire to modify the provisions of the Lease as provided below.

AGREEMENT

For good and valuable consideration the receipt and sufficiency of which are acknowledged, City and Tenant agree as follows:

1. **Modification to the Equipment.** Exhibit A to the Lease is hereby amended to include the modifications identified on Exhibit A-1, a copy of which is attached and made a part hereof. Exhibit A-1 supplements Exhibit A to the Lease, and shall not be deemed to supersede or otherwise modify Exhibit A or any part thereof except to the extent specifically set forth in Exhibit A-1. Upon full execution of this First Amendment, Tenant is permitted to do all work necessary to prepare, maintain and alter the Premises to install or otherwise modify the equipment, all as more fully described and contemplated in Exhibit A-1.

2. **Frequency Use**. Provided that any frequencies used by Tenant will not cause interference with the properly licensed and permitted pre-existing frequencies in use or in operation at the Equipment and notwithstanding anything to the contrary contained herein, Tenant may operate the equipment at any frequencies for which it has all requisite permits, leases or licenses.

3. **Modification to Lease Rate Structure.** Section 5.01 of the Lease is hereby deleted in its entirety and replaced by the following:

"5.01 TENANT agrees to pay rent to the City at the Department of Asset Management or elsewhere as designated in writing by City. The rent for the term of years is to be divided as follows:

A.	1st 5-year period (2001-2005):	$ 7,000 per year
B.	2nd 5-year period (2006-2010):	$ 8,050 per year
C.	3rd 5-year period (2011-2015):	$ 9,300 per year
	(January 5, 2013 through August 4, 2013):	$ 9,300 per year
	(August 5, 2013 through December 4, 2013):	$38,439 per year
	(December 5, 2013 through May 4, 2014):	$39,592 per year
	(May 5, 2014 through May 4, 2015):	$40,780 per year
D.	4th 5-year period	
	(May 5, 2015 through May 4, 2016):	$42,003 per year
	(May 5, 2016 through May 4, 2017):	$43,264 per year
	(May 5, 2017 through May 4, 2018):	$44,562 per year
	(May 5, 2018 through May 4, 2019):	$45,898 per year
	(May 5, 2019 through May 4, 2020):	$47,275 per year

4. **One Time Fee.** As consideration for the modification and other rights as set forth in this First Amendment, Tenant agrees to pay Landlord a one time fee of $4,000.00, such fee shall be payable directly to Landlord within thirty (30) days of the parties' full execution of this First Amendment and delivery of fully executed original of this First Amendment to Tenant.

5. **Improvements and Repairs**. Subsection XV(15.01) of the Lease Agreement is hereby deleted and replaced with the following:

"Tenant may, at its expense, make improvements on and to the Premises as it deems necessary or desirable from time to time for the operation of the equipment by providing City with thirty (30) days prior written notice thereof and Tenant shall follow the City's standard process for review of Tenant's constructions drawings and structural analysis by the appropriate City department(s) and agencies including the City's Planning Commission and Historical Design and Review Commission. All construction work performed by Tenant or on Tenant's behalf within the Premises shall be performed in a good and workmanlike manner, in compliance with all City and governmental requirements. City agrees to cooperate with Tenant with respect to obtaining any required zoning or other governmental approvals for the Premises, the equipment and contemplated use thereof."

6. **Notice Address**. The notice addresses in Section XXII of the Lease for the party or parties listed below are hereby deleted in their entirety and replaced with the following:

To City:	City of San Antonio 515 South Frio Street San Antonio, TX 78207-5009
To Tenant:	Sprint Property Services Sprint Site ID: SA13XC135-A Mailstop KSOPHT0101-Z2650 6391 Sprint Parkway Overland Park, Kansas 66251-2650
With a mandatory copy to:	Sprint Law Department Sprint Site ID: SA13XC135-A Mailstop KSOPHT0101-Z2020 6391 Sprint Parkway Overland Park, Kansas 66251-2020 Attn.: Real Estate Attorney

7. **General Terms and Conditions**.

a. All capitalized terms used in this First Amendment, unless otherwise defined herein, will have the same meaning as the terms contained in the Lease.

b. In case of any inconsistencies between the terms and conditions contained in the Lease and the terms and conditions contained in this First Amendment, the terms and conditions herein will control. Except as set forth below, all provisions of the Lease are ratified and remain unchanged and in full force and effect.

c. This First Amendment may be executed in duplicate counterparts, each of which will be deemed an original.

d. Each of the parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this First Amendment.

*****SIGNATURES ON FOLLOWING PAGE*****

The parties have executed this First Amendment as of the Effective Date.

City:	**Tenant:**
City of San Antonio, a Texas municipal corporation	Sprint Spectrum Realty Company, L.P., a Delaware limited partnership
By: _____	By: _____
Printed Name: _____	Printed Name: Dwayne L Baker
Title: _____	Title: Texas Area Manager
Date: _____	Date: 11/4/13

Exhibit A-1

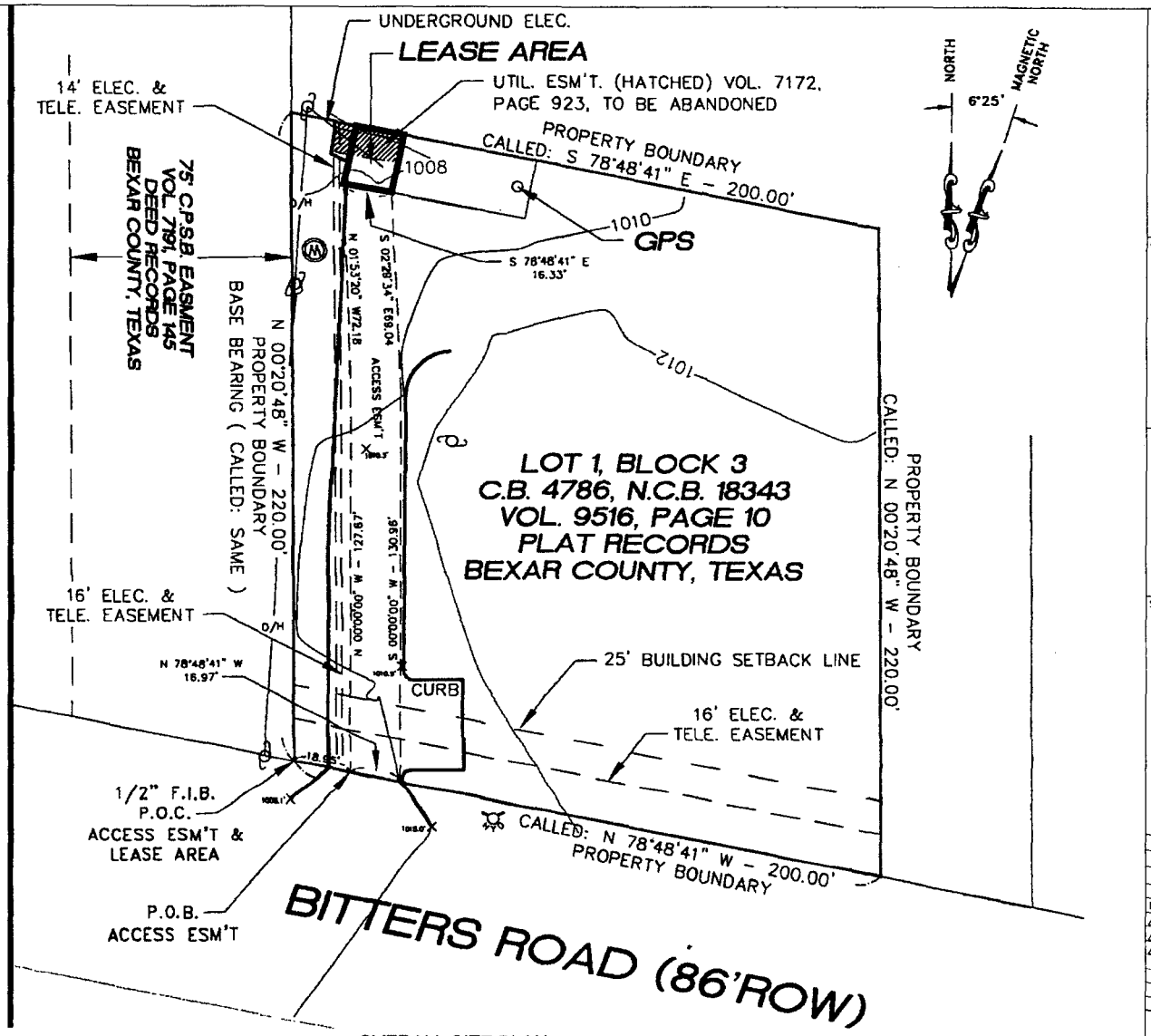
[see attached]

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GRADE LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPROX	APPROXIMATE
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BTS	BASE TRANSMISSION STATION
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CND	CONDUIT
DWG	DRAWING
FT	FOOT (FEET)
EGB	EQUIPMENT GROUND BAR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ELEV	ELEVATION
EQUIP	EQUIPMENT
(E)	EXISTING
EXT	EXTERIOR
FND	FOUNDATION
F	FIBER
GA	GAUGE
GALV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
LTE	LONG TERM EVOLUTION
MAX	MAXIMUM
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OE/OT	OVERHEAD ELECTRIC/TELCO
PPC	POWER PROTECTION CABINET
RBS	RADIO BASED STATION
RRU	REMOTE RADIO UNIT
RGS	RIGID GALVANIZED STEEL
IN	INCH(ES)
INT	INTERIOR
LB(S) or #	POUND(S)
SF	SQUARE FOOT
STL	STEEL
TYP	TYPICAL
UE/UT	UNDERGROUND ELECTRIC/TELCO
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W/	WITH
XFMR	TRANSFORMER

SYMBOLS

- REVISION
- WORK POINT
- UTILITY POLE
- BRICK
- COMPRESSED STONE
- CONCRETE
- EARTH
- GRAVEL
- MASONRY
- STEEL
- CENTERLINE
- PROPERTY LINE
- LEASE LINE
- EASEMENT LINE
- CHAIN LINK FENCE
- WOOD FENCE
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- OE/OT — OVERHEAD ELECTRIC/TELEPHONE



1 OVERALL SITE PLAN

TRUE NORTH

FULL SIZE PLOT: SCALE: 1"= 20'-0"
HALF SIZE PLOT: SCALE: 1"= 40'-0"

0 10' 20' 40'

PREPARED FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

CONSULTANT:

POWDER RIVER
Development Services, LLC
100 E. SHENANGO STREET
SHARPSVILLE, PA 16150
724.962.5999
www.powderriverdev.com
PRDS PROJ.NO. 1181-081911

SITE NAME:
SPRING LAKE FIRE STATION #43

SITE NUMBER:
SA13XC135

SITE ADDRESS:
2059 W. BITTERS ROAD
SAN ANTONIO, TX 78248

STAMP:

FOR REFERENCE ONLY

DRAWN BY:	KE
APPROVED BY:	G.W.C.
DATE DRAWN:	09/07/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	KE	09/07/11
2	FINALS	TM	11/07/11
3	FINALS-REV1	TM	08/17/12

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GRADE LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPROX	APPROXIMATE
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
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	PROPERTY LINE
	LEASE LINE
	EASEMENT LINE
	CHAIN LINK FENCE
	WOOD FENCE
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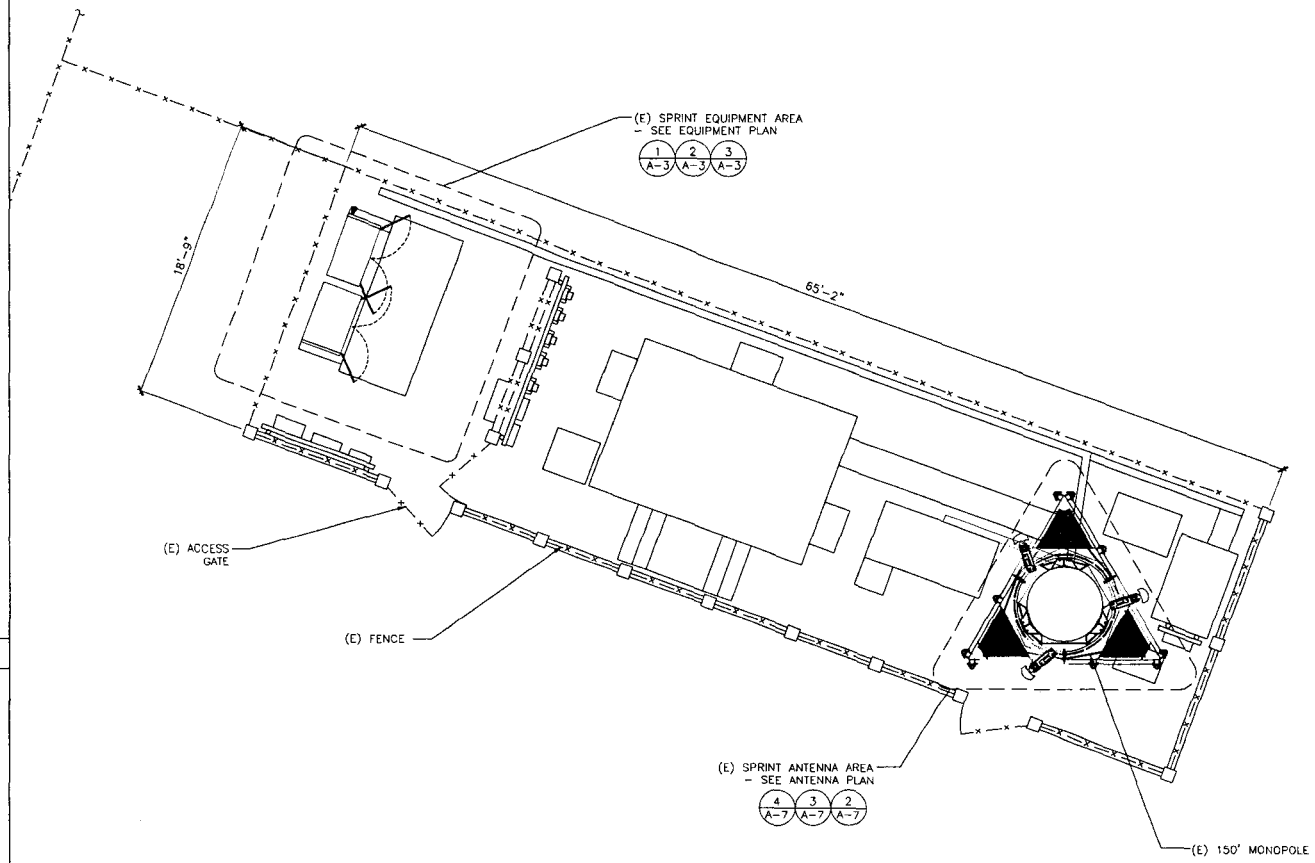
UT	UNDERGROUND TELEPHONE
OE/OT	OVERHEAD ELECTRIC/TELEPHONE



TRUE NORTH

1 ENLARGED SITE PLAN

FULL SIZE PLOT: SCALE: 1/4"= 1'-0"
HALF SIZE PLOT: SCALE: 1/2"= 1'-0"

0 1.5' 3' 5'

PREPARED FOR:

Sprint

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SAN ANTONIO, TX 78248

STAMP:

STATE OF TEXAS
GARY W. CLOWER
106423
LICENSED
PROFESSIONAL ENGINEER

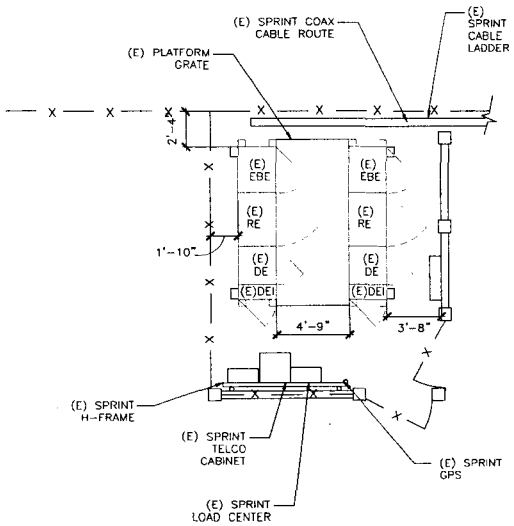
DRAWN BY:	KE
APPROVED BY:	G.W.C.
DATE DRAWN:	09/07/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	KE	09/07/11
2	FINALS	TM	11/07/11
3	FINALS-REV1	TM	08/17/12

SHEET TITLE:
ENLARGED SITE PLAN

SHEET NUMBER:
A-2



TRUE NORTH

3 EQUIPMENT SITE PLAN (EXISTING)

FULL SIZE PLOT: SCALE: 1/4"= 1'-0"
HALF SIZE PLOT: SCALE: 1/8"= 1'-0"

0 1' 2' 4' 8'

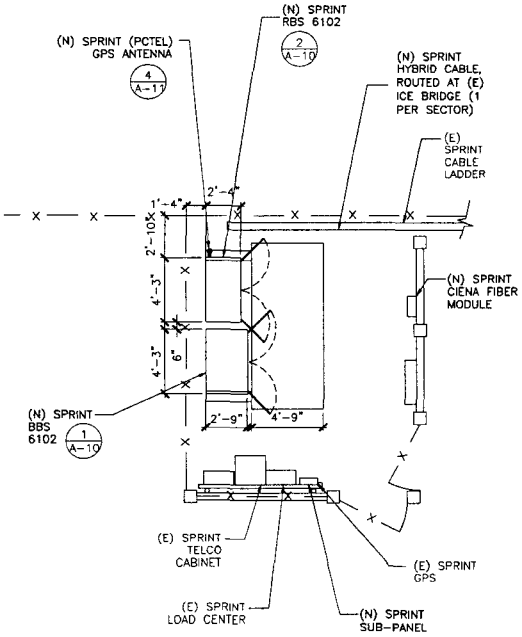
COLD SLIDE

TRUE NORTH

2 NOT USED

FULL SIZE PLOT: SCALE: 1/4"= 1'-0"
HALF SIZE PLOT: SCALE: 1/8"= 1'-0"

0 1' 2' 4' 8'



TRUE NORTH

1 EQUIPMENT SITE PLAN (FINAL)

FULL SIZE PLOT: SCALE: 1/4"= 1'-0"
HALF SIZE PLOT: SCALE: 1/8"= 1'-0"

0 1' 2' 4' 8'

PREPARED FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

CONSULTANT:

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PRDS PROJ.NO. 1181-08191

SITE NAME:
SPRING LAKE FIRE STATION #43

SITE NUMBER:
SA13XC135

SITE ADDRESS:
2059 W. BITTERS ROAD
SAN ANTONIO, TX 78248

STAMP:

STATE OF TEXAS
GARY W. CLOWER
106423
LICENSED
PROFESSIONAL ENGINEER

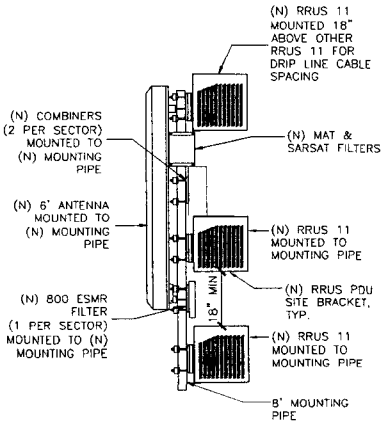
DRAWN BY:	KE
APPROVED BY:	G.W.C.
DATE DRAWN:	09/07/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	KE	09/07/11
2	FINALS	TM	11/07/11
3	FINALS-REV1	TM	08/17/12

SHEET TITLE:
EQUIPMENT PLANS

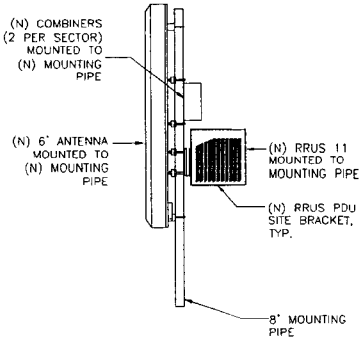
SHEET NUMBER:
A-3



SIDE VIEW WITH 6' ANTENNA

3 ANTENNA DETAIL (FINAL CONFIGURATION)

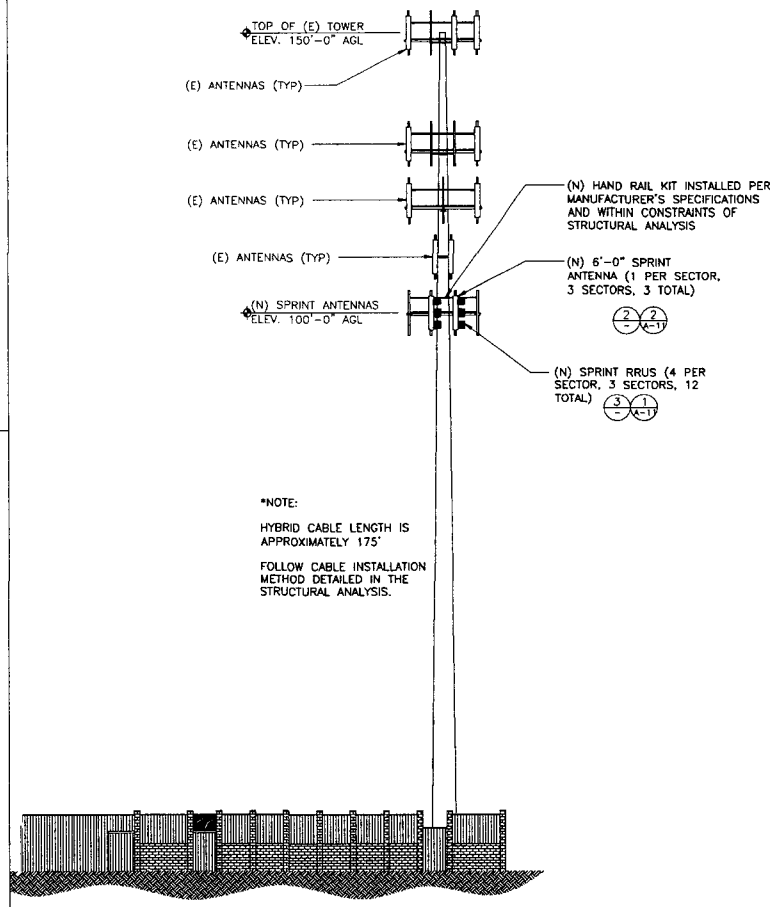
SCALE: N.T.S.



SIDE VIEW WITH 6' ANTENNA

2 ANTENNA DETAIL (FIRST TOUCH)

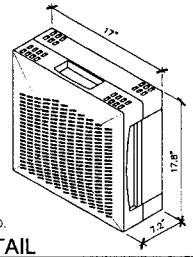
SCALE: N.T.S.



1 SITE ELEVATION

SCALE: 3/32"= 1'-0"

ERICSSON RRUS-11
- DIMENSIONS (H x W x D):
  17.8" x 17.0" x 7.2" (INCLUDES SUNSHIELD)
- WEIGHT: 55 LBS
- CLIMATE: -40°C TO +55°C
  (SELF CONVECTION SILENT, NO FANS, IP55)
- POWER CONSUMPTION: 200 WATTS (TYP.)



NOTE:
RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

4 RRUS DETAIL

SCALE:N.T.S.

NOTES:
1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS – SEE SHEET A-8 & A-9
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ COAXIAL CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WiMAX COAX GROUND KITS

COAXIAL ANTENNA CABLE NOTES:
1. THE ANTENNA COAXIAL CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WiMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.
6. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

NOTES:
1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PCS PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

PREPARED FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

CONSULTANT:

POWDER RIVER
Development Services, LLC
100 E. SHENANGO STREET
SHARPSVILLE, PA 16150
724.962.5999
www.powderriverdev.com
PRDS PROJ.NO. 1181-061911

SITE NAME:
SPRING LAKE FIRE STATION #43

SITE NUMBER:
SA13XC135

SITE ADDRESS:
2059 W. BITTERS ROAD
SAN ANTONIO, TX 78248

STAMP:

STATE OF TEXAS
GARY W. CLOWER
106423
LICENSED
PROFESSIONAL ENGINEER

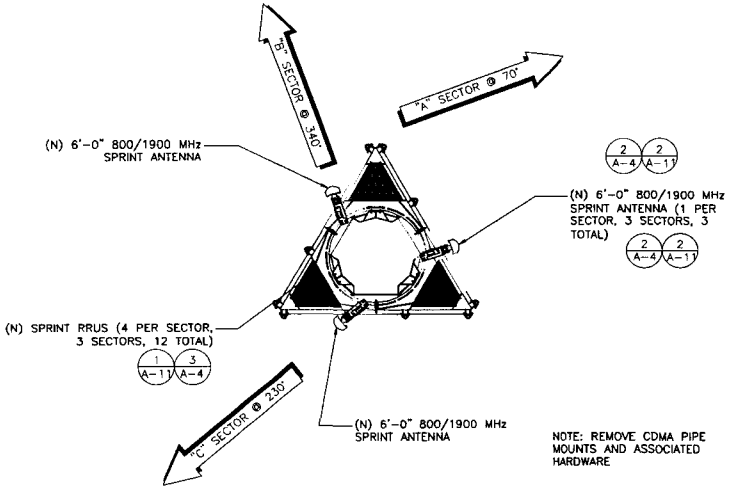
DRAWN BY:	KE
APPROVED BY:	G.W.C.
DATE DRAWN:	09/07/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	KE	09/07/11
2	FINALS	TM	11/07/11
3	FINALS-REV1	TM	08/17/12

SHEET TITLE:
SITE ELEVATION & ANTENNA DETAILS

SHEET NUMBER:
A-4



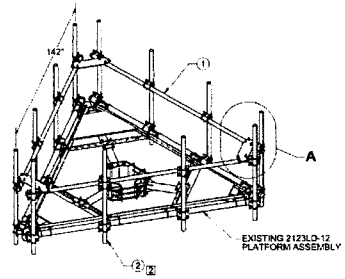
NOTE: REMOVE CDMA PIPE MOUNTS AND ASSOCIATED HARDWARE

4 PROPOSED ANTENNA PLAN - FINAL

TRUE NORTH

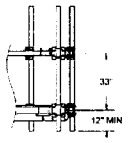
SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

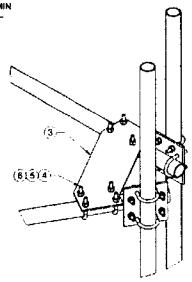


1. FULL COMPLEMENT OF ANTENNA MOUNT PIPES SHOWN.
2. ITEM 2, ANTENNA MOUNT PIPE ASSY, TO BE ORDERED SEPARATLY. A MINIMUM OF SIX ANTENNA PIPES ARE REQUIRED (THREE PER FACE).
3. WIND RATING: 90mph WITH TWELVE 5 SOFT ANTENNAS INSTALLED. CONTACT THE FACTORY FOR WIND RATINGS FOR OTHER ANTENNA SIZES AND/OR QUANITIES.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	3	2125-150	PIPE, 2" (2.38" OD) SCHED 40 X 150" LG. GALV
2	6-12	2123LD-X-HRMTKIT [2]	ANTENNA MOUNT PIPE ASSY. (2" (2.38" OD) SCHED 40 GALV)
3	3	7000-2123LD-14.7	CORNER BRACKET, 12"FT PLATFORM
4	12	4496-4G	U-BOLT, 2" (2.38" OD) PIPE, GALV (1/2" DIA)
5	24	4650G	NUT, 1/2" HEX, A563 GALV
6	24	4754G	WASHER, 1/2" RGLR LOCK, GALV



HANDRAIL HEIGHT

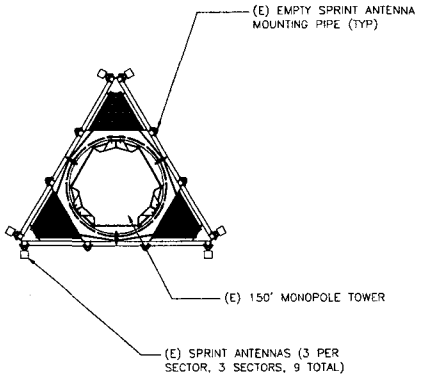


3 HANDRAIL DETAIL

TRUE NORTH

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

0 1' 2' 4' 8'

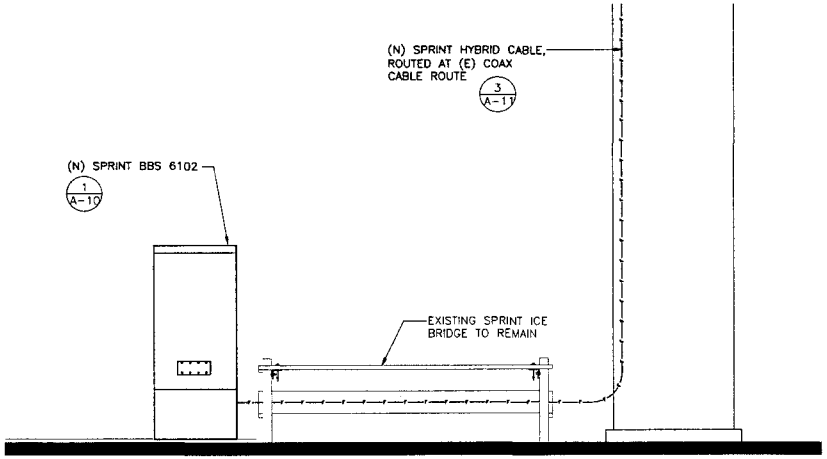


2 EXISTING ANTENNA PLAN

TRUE NORTH

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

0 1' 2' 4' 8'



1 COAX RUN DIAGRAM

SCALE: 1/2" = 1'-0"

PREPARED FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

CONSULTANT:

POWDER RIVER
Development Services, LLC
100 E. SHENANGO STREET
SHARPSVILLE, PA 16150
724.962.5999
www.powderriverdev.com
PRDS PROJ.NO. 1181-081911

SITE NAME:

SPRING LAKE FIRE STATION #43

SITE NUMBER:

SA13XC135

SITE ADDRESS:
2059 W. BITTERS ROAD
SAN ANTONIO, TX 78248

STAMP:

STATE OF TEXAS
GARY W. CLOWER
106423
LICENSED
PROFESSIONAL ENGINEER

DRAWN BY:	KE
APPROVED BY:	G.W.C.
DATE DRAWN:	09/07/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	KE	09/07/11
2	FINALS	TM	11/07/11
3	FINALS-REV1	TM	08/17/12

SHEET TITLE:
ENLARGED ANTENNA PLANS

SHEET NUMBER:
A-7

EXHIBIT "B"

AMENDMENT NO. 1 TO STANDARD TOWER LEASE AGREEMENT WITH SPRINT SPECTRUM AT 4531 ZARZAMORA ST.

This Amendment No. 1 to Standard Tower Lease Agreement with Sprint Spectrum At 4531 Zarzamora St. (this "**First Amendment**"), effective as of the date last signed below ("**Effective Date**"), amends a certain Standard Tower Lease Agreement with Sprint Spectrum At 4531 Zarzamora St. between Sprint Spectrum Realty Company, L.P., a Delaware limited partnership, successor in interest to Sprint Spectrum L.P., a Delaware limited partnership ("**Tenant**") and the City of San Antonio, a Texas municipal corporation ("**City**"), dated August 16, 2005 (the "**Lease Agreement**").

BACKGROUND

WHEREAS, Tenant desires to modify its installation on the Premises by adding or swapping out antennas and other equipment as more particularly described in Exhibit A-1 annexed hereto, and Tenant and City desire to modify the provisions of the Lease Agreement as provided below.

AGREEMENT

For good and valuable consideration the receipt and sufficiency of which are acknowledged, City and Tenant agree as follows:

1. **Modification to the Equipment and Tower.** Exhibit A to the Lease Agreement is hereby amended to include the modifications identified on Exhibit A-1, a copy of which is attached and made a part hereof. Exhibit A-1 supplements Exhibit A to the Lease Agreement, and shall not be deemed to supersede or otherwise modify Exhibit A or any part thereof except to the extent specifically set forth in Exhibit A-1. Upon full execution of this First Amendment, Tenant is permitted to do all work necessary to prepare, maintain and alter the Premises to install or otherwise modify the equipment and the tower, all as more fully described and contemplated in Exhibit A-1.

2. **Frequency Use**. Provided that any frequencies used by Tenant will not cause interference with the properly licensed and permitted pre-existing frequencies in use or in operation at the equipment and notwithstanding anything to the contrary contained herein, Tenant may operate the equipment at any frequencies for which it has all requisite permits, leases or licenses. This paragraph does not supersede Tenant's obligations under Section VIII. INTERFERENCE (Subsections 8.01 and 8.02) of the Standard Tower Lease Agreement.

3. **Modification to Lease Rate Structure.** Section 5.01 of the Lease is hereby deleted in its entirety and replaced by the following:

"5.01 TENANT agrees to pay rent to the City at the Information Technology Services Department or elsewhere as designated in writing by City. The increase in annual rent includes a 3% escalation factor and is rounded to the nearest dollar in the rent schedule below. The rent for the term of years is to be divided as follows:

A.	1st 5-year period (2005-2010):	$12,500 per year
B.	2nd 5-year period (2011 and 2015):	$14,400 per year
	(January 16, 2013 through August 15, 2013):	$14,400 per year
	(August 16, 2013 through December 15, 2013):	$38,439 per year
	(December 16, 2013 through August 15, 2014):	$39,592 per year
	(August 16, 2014 through August 15, 2015):	$40,780 per year
C.	3rd 5-year period	
	(August 16, 2015 through August 15, 2016):	$42,003 per year
	(August 16, 2016 through August 15, 2017):	$43,264 per year
	(August 16, 2017 through August 15, 2018):	$44,562 per year
	(August 16, 2018 through August 15, 2019):	$45,898 per year
	(August 16, 2019 through August 15, 2020):	$47,275 per year
D.	4th 5-year period	

(August 16, 2020 through August 15, 2021):	$48,694 per year
(August 16, 2021 through August 15, 2022):	$50,154 per year
(August 16, 2022 through August 15, 2023):	$51,659 per year
(August 16, 2023 through August 15, 2024):	$53,209 per year
(August 16, 2024 through August 15, 2025):	$54,805 per year"

4. **One Time Fee**. As consideration for the modification and other rights as set forth in this First Amendment, Tenant agrees to pay Landlord a one time fee of $4,000.00, such fee shall be payable directly to City within thirty (30) days following the Effective Date and delivery of fully executed original of this First Amendment to Tenant.

5. .**Improvements and Repairs**. Subsection XV(15.01) of the Lease Agreement is hereby deleted and replaced with the following:

""Tenant may, at its expense, make improvements on and to the Premises as it deems necessary or desirable from time to time for the operation of the equipment by providing City with thirty (30) days prior written notice thereof and Tenant shall follow City's standard process for review of Tenant's constructions drawings and structural analysis by the appropriate City department(s) and agencies including the City's Information Technology Services Department, Planning Commission, and Historical Design and Review Commission. All construction work performed by Tenant or on Tenant's behalf within the Premises shall be performed in a good and workmanlike manner, in compliance with all City and governmental requirements. City agrees to cooperate with Tenant with respect to obtaining any required zoning or other governmental approvals for the Premises, the equipment and the installation and contemplated use thereof."

6. **Notice Address**. The notice addresses in Section XXII of the Lease Agreement for the party or parties listed below are hereby deleted in their entirety and replaced with the following:

To City:	City of San Antonio Attn: Tower Lease Agreement 515 South Frio Street San Antonio, TX 78207-5009
To Tenant:	Sprint Property Services Sprint Site ID: SA60XC296 Mailstop KSOPHT0101-Z2650 6391 Sprint Parkway Overland Park, Kansas 66251-2650
With a mandatory copy to:	Sprint Law Department Sprint Site ID: SA60XC296 Mailstop KSOPHT0101-Z2020 6391 Sprint Parkway Overland Park, Kansas 66251-2020 Attn.: Real Estate Attorney

7. **General Terms and Conditions**.

a. All capitalized terms used in this First Amendment, unless otherwise defined herein, will have the same meaning as the terms contained in the Lease Agreement.

b. In case of any inconsistencies between the terms and conditions contained in the Lease Agreement and the terms and conditions contained in this First Amendment, the terms and conditions herein will control. Except as set forth below, all provisions of the Lease Agreement are ratified and remain unchanged and in full force and effect.

c. This First Amendment may be executed in duplicate counterparts, each of which will be deemed an original.

d. Each of the parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this First Amendment.

*****SIGNATURES ON FOLLOWING PAGE*****

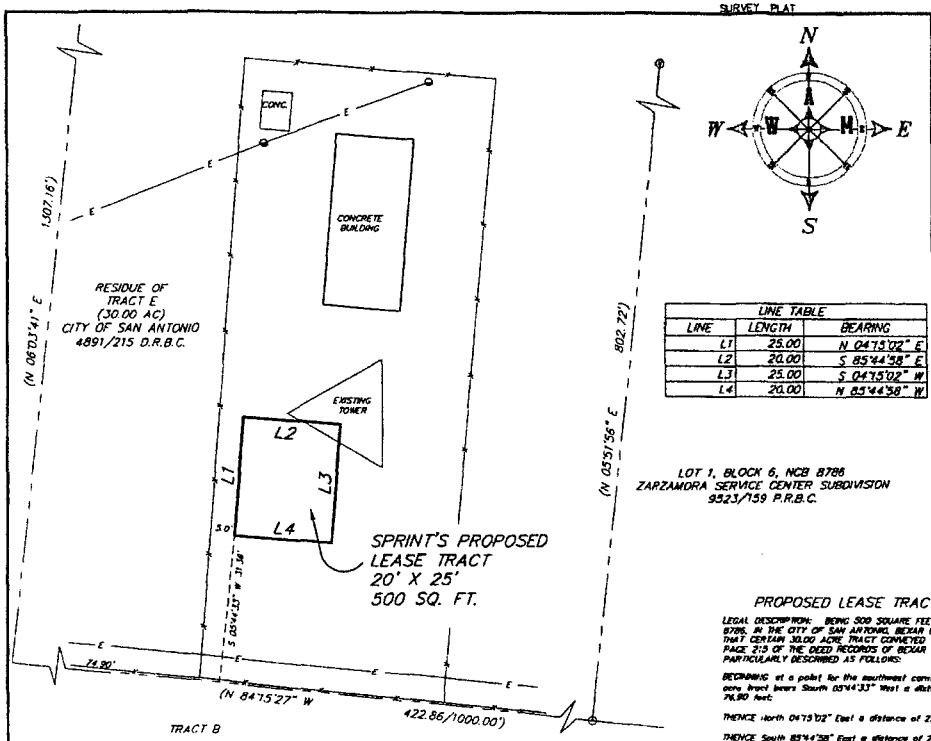
The parties have executed this First Amendment as of the Effective Date.

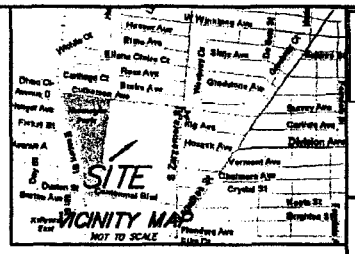
City:	**Tenant:**
City of San Antonio, a Texas municipal corporation	Sprint Spectrum Realty Company, L.P., a Delaware limited partnership
By: _____	By: _____
Printed Name: _____	Printed Name: DWAYNE L BAKER
Title: _____	Title: TEXAS AREA MANAGER
Date: _____	Date: 11/4/13

Exhibit A-1

[see attached]

SURVEY PLAT





LINE TABLE		
LINE	LENGTH	BEARING
L1	25.00	N 04°15'02" E
L2	20.00	S 85°44'58" E
L3	25.00	S 04°15'02" W
L4	20.00	N 85°44'58" W

LOT 1, BLOCK 6, NCB 8786
ZARZAMORA SERVICE CENTER SUBDIVISION
9523/159 P.R.B.C.

RECORD DESCRIPTION 4891/215 D.R.

BEGINNING at the point of intersection of the South right-of-way of Culbersen Avenue and the West right-of-way of South Zarzamora Street (formerly Aviation Blvd.) thence with the West right-of-way of South Zarzamora Street as follows: South 6 deg. 03 min. 41 sec. West, 1307.16 feet; thence North 84 deg. 15 min. 27 sec. West 1000 feet; thence North 6 deg. 03 min. 41 sec. East 1307.16 feet to the South right-of-way of Culbersen Avenue; thence with south right-of-way of Culbersen Avenue South 84 deg. 15 min. 27 sec. East 1000 feet to point of beginning, containing 30.00 acres of land, more or less.

PROPOSED LEASE TRACT

LEGAL DESCRIPTION: BEING 500 SQUARE FEET OF LAND LYING IN AND BEING SITUATED OUT OF N.C.B. 8786, IN THE CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS AND BEING A PORTION OF THE RESIDUE OF THAT CERTAIN 30.00 ACRE TRACT CONVEYED TO THE CITY OF SAN ANTONIO BY DEED RECORDED IN 4891, PAGE 215 OF THE DEED RECORDS OF BEXAR COUNTY, TEXAS, SAID 500 SQUARE FOOT TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a point for the southwest corner hereof and from which the southwest corner of said 30.00 acre tract bears South 05°44'33" West a distance of 31.36 feet and North 84°15'27" West a distance of 74.90 feet;

THENCE North 04°15'02" East a distance of 25.00 feet to a point for the northwest corner hereof;

THENCE South 85°44'58" East a distance of 20.00 feet to a point for the northeast corner hereof;

THENCE South 04°15'02" West a distance of 25.00 feet to a point for the southeast corner hereof;

THENCE North 85°44'58" West a distance of 20.00 feet to the POINT OF BEGINNING and containing 500 square feet of land, more or less.

LEGEND

- FENCE CORNER FOUND
- IRON ROD FOUND
- IRON ROD W/ CAP SET
- BURIED PIPELINE
- OVERHEAD ELECTRIC LINE
- CHAIN LINK FENCE
- E.E. ELECTRIC EASEMENT
- D.E. DRAINAGE EASEMENT
- B.L. BUILDING SETBACK LINE
- (BRG.-DIST.) RECORD CALL
- (R.C.) RESTRICTIVE COVENANTS
- (TYP.) TYPICAL
- D.R.B.C. DEED RECORDS OF BEXAR COUNTY
- POWER POLE
- BENCHMARK/CONTROL POINT

UTILITY STATEMENT:
THE UTILITIES SHOWN HEREON DO NOT IMPLY NOR INTEND TO BE THE COMPLETE INVENTORY OF THE UTILITIES IN THIS AREA. IT IS THE RESPONSIBILITY OF THE CLIENT TO VERIFY THE LOCATION OF ALL UTILITIES AND PROTECT THEM FROM ANY DAMAGE.

FLOOD STATEMENT:
THE SUBJECT TRACT LIES WITHIN (UNKNOWN), AS SHOWN IN THE FEMA FLOOD INSURANCE RATE MAP, PANEL: 48029C0443E, WHICH IS AN UNPRINTED PANEL MAP ACCORDING TO FEMA/FIRM
NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THE ZONE AND AN ELEVATION CERTIFICATE MAY BE REQUIRED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY(FEMA).

SURVEYOR'S CERTIFICATION

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY.

REGISTERED PROFESSIONAL LAND SURVEYOR #5498 — DATE 10/26/2004

Sprint.

SPRINT SPECTRUM L.P.
SOUTH CENTRAL REGION SITE DEVELOPMENT
6580 SPRINT PARKWAY
OVERLAND PARK, KS 66251
ATTN: ANITA LAPLANT

CARAWAY COMMUNICATIONS
10008 ROYAL LANE
DALLAS, TEXAS 75238
(214) 340-9663
FAX: (214) 340-9634
ATTN: DIANNE CARAWAY

SITE:
SA60XC296-C

SPRINT RC
LANDLORD
SPRINT PROPERTY
R.F.
ZONING
CONSTRUCTION
NETWORK
OPERATIONS

TITLE SEARCH: LAND IT, US TITLE SEARCH, INC.
FILE # 6876
SITE # SA60XC296-C
SITE NAME: FIRE ACADEMY
REFERENCE: CARAWAY COMMUNICATIONS INC.
ADDRESS: 4531 S. ZARZAMORA ST.

LEGAL DESCRIPTION: 500 SQUARE FEET OF LAND OUT OF N.C.B. 8786 IN THE CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS AN BEING A PORTION OF THAT CERTAIN 30.00 ACRE TRACT DESCRIBED IN VOLUME 4891, PAGE 215 OF THE DEED RECORDS OF BEXAR COUNTY, TEXAS

JOB NO.: W-479-04 FIELD BOOK 457/15
DRAFT: JFW REV. 11/8/04
FILE: CARAWAY\SA296 W47904.DWG

WATSON & ASSOCIATES OF MIDLAND, INC.
CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS
4800 W. TEXAS
SUITE 100 (79703)
(432) 550-9900
P.O. DRAWER 1600
MIDLAND, TEXAS 79702
FAX: (432) 520-0202
watson@wa-midland.com

SHEET TITLE
SURVEY

SHEET NUMBER
LS-1

1 OVERALL SITE PLAN
SCALE: N.T.S.

OWNER/APPLICANT FOR:
Sprint
1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:
I CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF AND THAT THEY COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE - 2003 EDITION.
JEREMY D. SHARIT
103303
LICENSED PROFESSIONAL ENGINEER
07/31/13

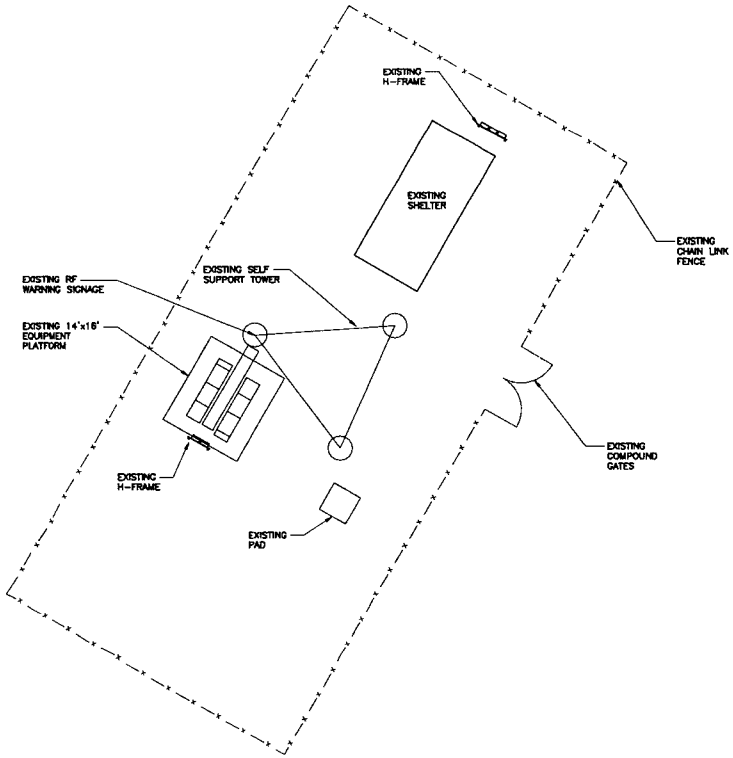
DRAWN BY:	JHB
SMW #:	
APPROVED BY:	JDS
	11-0802
DATE DRAWN:	08/05/11

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	JDS	08/05/11
2	SUBMISSION: 100% CD	JDS	01/15/12
3	SUB: REV PER RFDS	DCP	07/23/12
4	SUB: REV PER CLIENT	DCP	08/16/12
5	SUB: REV PER STRUC	DCP	10/10/12
6	SUB: SEALED FINALS	JDS	10/16/12
7	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1



TRUE NORTH

1 OVERALL SITE PLAN

FULL SIZE PLOT: SCALE: 1"= 10'
HALF SIZE PLOT: SCALE: 1"= 20'

0 10' 20' 40'

OWNER/APPLICANT FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:

CRAFTON COMMUNICATIONS

728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:

SMW ENGINEERING GROUP, INC.

TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-8985 FAX: 205-320-1504

SITE NAME:

SA60XC296

FCC NUMBER:

1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:

I CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL AND TO THE BEST OF MY KNOWLEDGE & BELIEF, COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.

JEREMY D. SHARIT
103303
LICENSED PROFESSIONAL ENGINEER

07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION

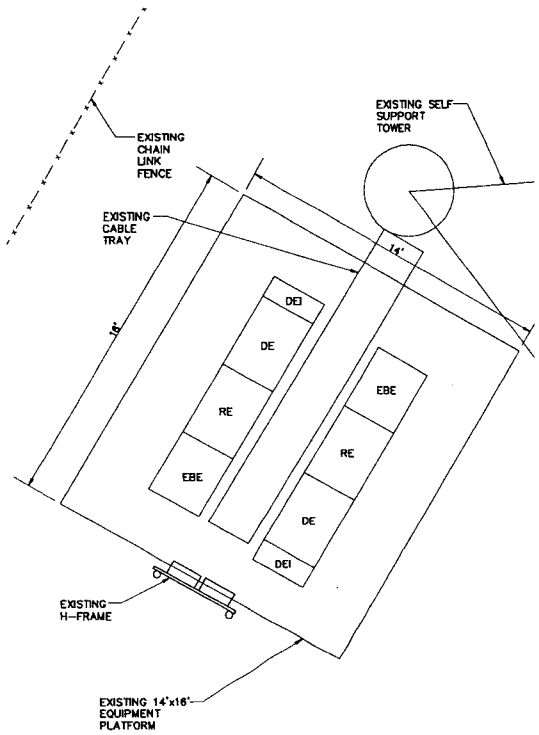
NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	JDS	08/05/11
2	SUBMISSION: 100% CD	JDS	01/15/12
3	SUB: REV PER RFDS	DCP	07/23/12
4	SUB: REV PER CLIENT	DCP	08/16/12
5	SUB: REV PER STRUC	DCP	10/10/12
6	SUB: SEALED FINALS	JDS	10/16/12
7	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

A-2



1 EQUIPMENT SITE PLAN (EXISTING)

TRUE NORTH

FULL SIZE PLOT: SCALE: 3/8"= 1'-0"
HALF SIZE PLOT: SCALE: 3/16"= 1'-0"

0 1' 2'

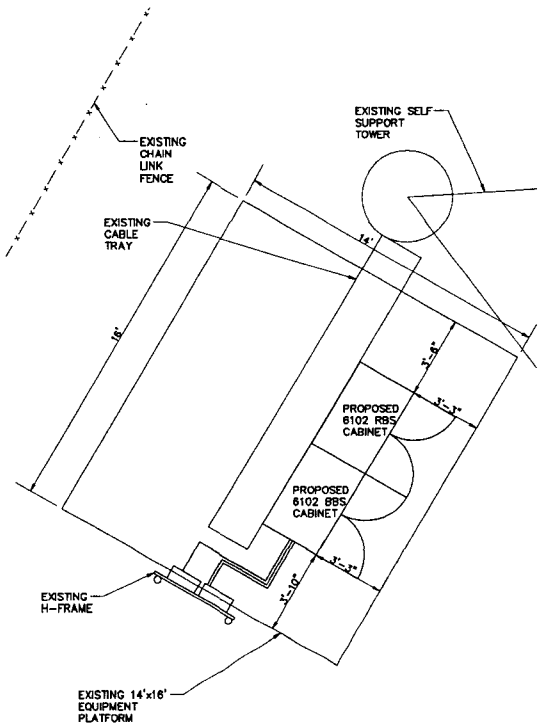
NOTE:
COLD SWAP SOLUTION;
NO TEMP PHASE

2 NOT USED

SCALE: N.T.S.

TRUE NORTH

NOTE:
ALL EXISTING HOLES IN GRATING TO BE COVERED BY 3/8" GALV PLATE. MULTIPLE SMALL HOLES TO BE COVERED BY ONE PLATE. (SEE DETAIL 3/A-8)



3 EQUIPMENT SITE PLAN (FINAL)

TRUE NORTH

FULL SIZE PLOT: SCALE: 3/8"= 1'-0"
HALF SIZE PLOT: SCALE: 3/16"= 1'-0"

0 1' 2' 4' 8'

OWNER/APPLICANT FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:

CRAFTON COMMUNICATIONS

728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:

SMW ENGINEERING GROUP, INC.

TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:

SA60XC296

FCC NUMBER:

1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:

I CERTIFY THAT [illegible] WERE PREPARED BY ME OR [illegible] DIRECT SUPERVISION & CONTROL [illegible] TO THE BEST OF MY KNOWLEDGE & BELIEF [illegible] WITH [illegible] OF THE INTERNATIONAL BUILDING CODE [illegible]

JEREMY D. SHARIT
103303
LICENSED PROFESSIONAL ENGINEER

07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION

NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	JDS	08/05/11
2	SUBMISSION: 100% CD	JDS	01/15/12
3	SUB: REV PER RFDS	DCP	07/23/12
4	SUB: REV PER CLIENT	DCP	08/16/12
5	SUB: REV PER STRUC	DCP	10/10/12
6	SUB: SEALED FINALS	JDS	10/16/12
7	SUB: REV. FINALS	JDS	07/31/13

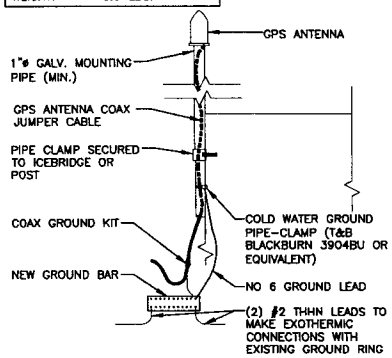
SHEET TITLE:

EQUIPMENT PLANS

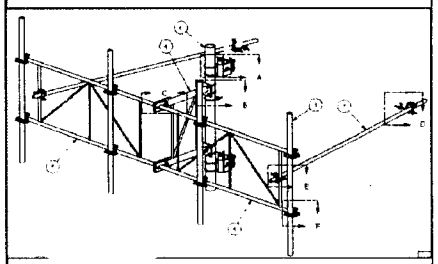
SHEET NUMBER:

A-3

MANUFACTURER: ERICSSON
MODEL#: KRE 101 2082/1
DIMENSIONS: 5.0"H x 3.2"D
WEIGHT: 0.6 LBS.

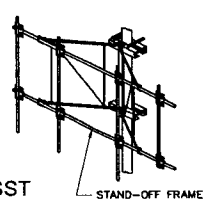


4 GPS ANTENNA DETAIL
SCALE: NOT TO SCALE

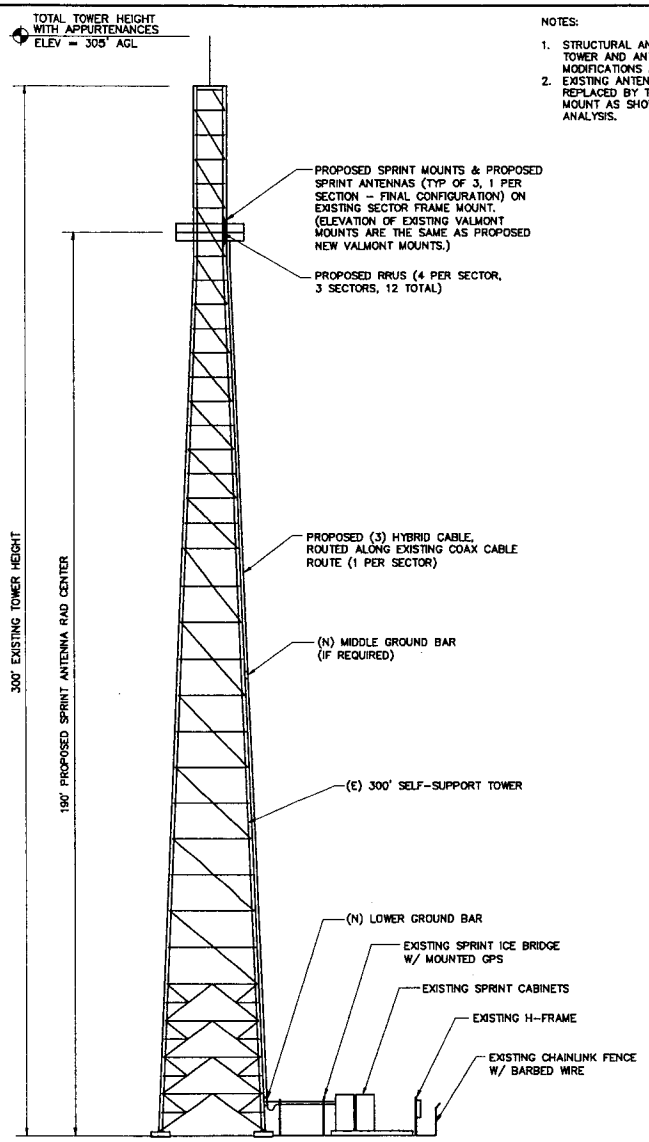


SST
VALMONT MODEL NO. LTF15-472
3 ANTENNA MOUNT (PROPOSED)
SCALE: NOT TO SCALE

NOTE:
SEE DETAIL ON A-10 FOR ANTENNA, RRU AND OTHER EQUIPMENT.



SST
2 ANTENNA MOUNT (EXISTING)
SCALE: NOT TO SCALE



1 SITE ELEVATION
SCALE: NOT TO SCALE

NOTES:
1. STRUCTURAL ANALYSIS RESULTS SHOW TOWER AND ANTENNA MOUNT MODIFICATIONS ARE NEEDED.
2. EXISTING ANTENNA MOUNTS TO BE REPLACED BY THE PROPOSED ANTENNA MOUNT AS SHOWN ON STRUCTURAL ANALYSIS.

NOTES:
1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS.
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ COAXIAL CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

COAXIAL ANTENNA CABLE NOTES:
1. THE ANTENNA COAXIAL CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.
6. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

ANTENNA MOUNTING NOTES:
1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.

NOTES:
1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PCS PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
5. CONTRACTOR TO REFER TO MOUNT MAPPING, P.E. LETTER AND STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION START.

OWNER/APPLICANT FOR:
Sprint
1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296
FCC NUMBER:
1223931
SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

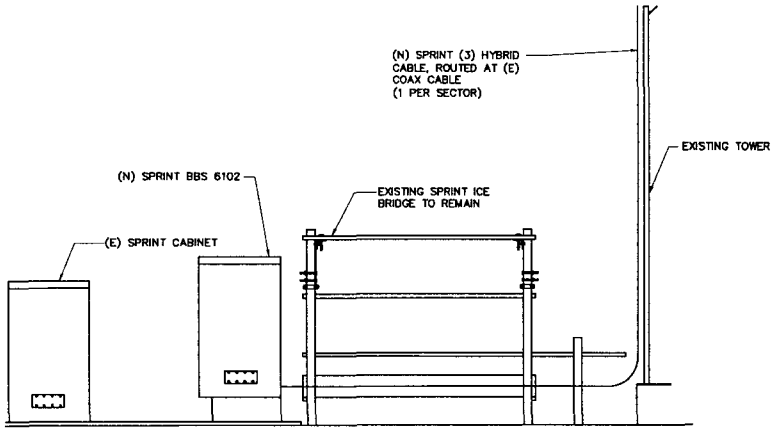
STAMP:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL AND TO THE BEST OF MY KNOWLEDGE & BELIEF, COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2009 EDITION.
JEREMY D. SHARIT
103303
PROFESSIONAL ENGINEER
LICENSED
07/31/13

DRAWN BY:	JHB	SMW #:	
APPROVED BY:	JDS	11-0802	
DATE DRAWN:	08/05/11		

REVISION

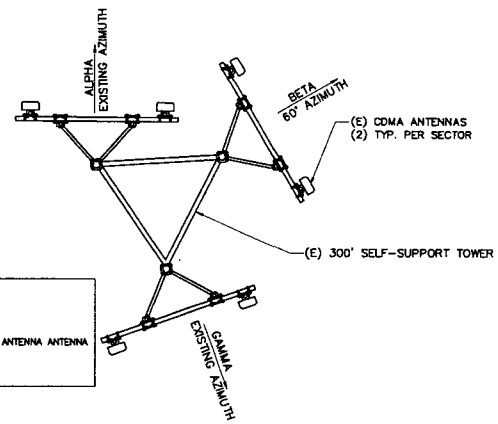
NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	JDS	08/05/11
2	SUBMISSION: 100% CD	JDS	01/15/12
3	SUB: REV PER RFDS	DCP	07/23/12
4	SUB: REV PER CLIENT	DCP	08/16/12
5	SUB: REV PER STRUC.	DCP	10/10/12
6	SUB: SEALED FINALS	JDS	10/16/12
7	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
SITE ELEVATION & ANTENNA DETAILS
SHEET NUMBER:
A-4



TRUE NORTH

1 COAX RUN DIAGRAM
SCALE: NOT TO SCALE



LEGEND:

- NEW 800MHz & 1900MHz DUAL BAND ANTENNA ANTENNA
- EXISTING ANTENNA

ALL EXISTING TO BE REMOVED FROM TOWER BEFORE ANY NEW CAN BE PLACED ON TOWER

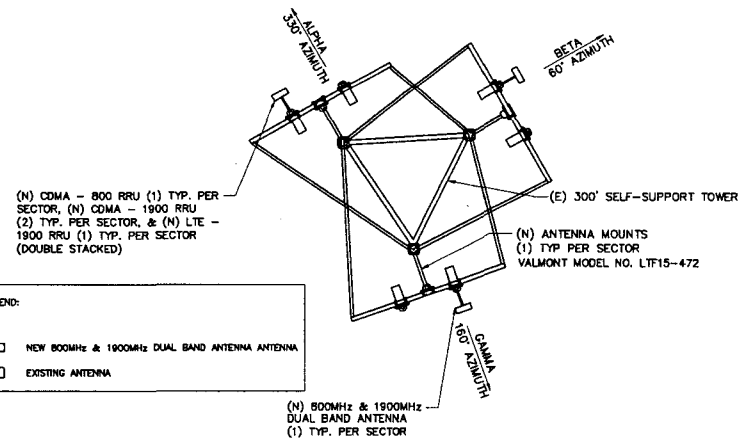
TRUE NORTH

2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE

THERE NOT BE A TEMPORARY PLAN. ALL EXISTING ANTENNAS AND COAX WILL NEED TO BE REMOVED BEFORE AND NEW HYBRIDS OR ANTENNAS CAN BE PLACED ON TOWER

TRUE NORTH

3 NOT USED
SCALE: N.T.S.



LEGEND:

- NEW 800MHz & 1900MHz DUAL BAND ANTENNA ANTENNA
- EXISTING ANTENNA

TRUE NORTH

4 PROPOSED ANTENNA PLAN - FINAL
SCALE: NOT TO SCALE

OWNER/APPLICANT FOR:

Sprint

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:

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SHEET TITLE:
ENLARGED ANTENNA PLANS & COAX RUN DIAGRAM

SHEET NUMBER:
A-8