



PLANS PREPARED BY:
Arch. & Eng. Firm Incorporated
REYNOLDS, PUGH, CROUCH, JAMES & CO., P.C. 1414 Broadway

Planning • Programming • Schematic • Networks
225 East Washington Ave., Suite 225
Minneapolis, MN 55401
P. 612.741.3570
F. 612.741.1789

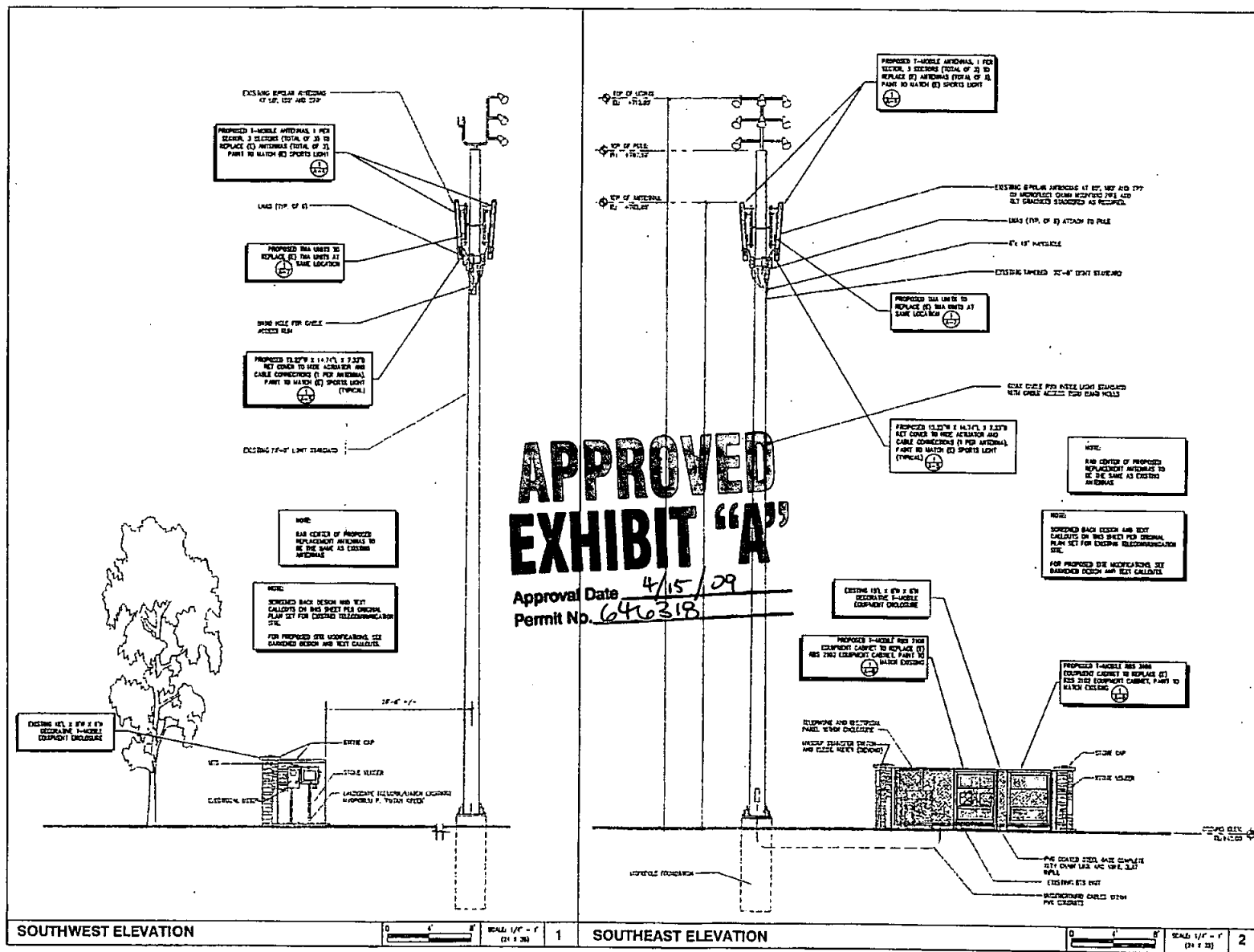
77995 Lechmere Dr., Suite 223
Minneapolis, MN 55409
P. 951.448.3339
F. 951.448.3339


MASSON
& ASSOCIATES, INC.

www.mpaonline.com

SHEET NUMBER: T-1

T-1



T-Mobile
stick together

WIRE TELEPHONE SERVICE, 10000
SAN DIEGO, CA 92108

PLANS PREPARED BY:

MASSON & ASSOCIATES, INC.

CONSULTING GROUP

Cortel

NO.	DATE	DESCRIPTION	BY
0	03/23/09	ZONING 80%	SJV
1	04/02/09	ZONING 100%	SJV
2	04/17/09	ADD LETTER	SJV

PROPRIETARY INFORMATION

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SITE INFORMATION

SD06345A

SPRING CANYON PARK

10807 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92131

STAMP:

SHEET TITLE:

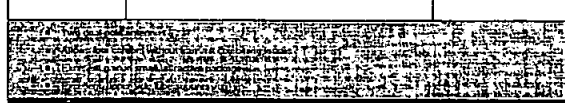
ELEVATIONS

SHEET NUMBER:

A-3

932QDG65T2EM
Dual-Pol Quad Antenna

Decibel®
Base Station Antennas



ELECTRICAL

Frequency (MHz):	1520 - 1530
Polarization:	±45°
Gain (dBi):	15.9/18
Antenna SWR (Avg.):	65
Element SWR (Avg.):	7
Beam TH (Avg.):	2
USLP (dB):	18
Front-to-Back Ratio (dB):	22
Isolation (dB):	+20
VSWR:	+15.2/1
SWR @ 2 x 2 (dB):	-130
Max. Input Power (Watt):	250
Impedance (Ohms):	50
Lightning Protection:	DC Ground

MECHANICAL

Weight:	9.2 kg (20.4 lb)
Dimensions (L x W x H):	1,220 x 330 x 76 mm
	(51.2 x 13.0 x 3.0 in)
Max. Wind Area:	0.34 m² (3.6 ft²)
Max. Wind Load (150 mph):	618.2 N (139 lb)
Max. Wind Speed:	231 km/h (143 mph)
Hardware Standard:	Chromatized Steel
Connector Type:	7-16 DIN - Female
	(4, Bottom)
Color:	Light Gray
Standard Mounting Hardware:	DEC620
Standard Downrod:	
Mounting Hardware:	DEC620

Andrew Corporation
2201 Telecom Parkway
Riverside, Texas 75381-3221
Tel: 214.821.8219

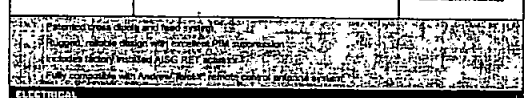
Fax: 214.821.1788
Tel/Fax: 1.800.678.5343
Fax: 1.800.223.4700
www.andrew.com

Information correct at date of issue but may be subject to change without notice.

EXISTING ANTENNA
SECTOR 'A'

TMBX-6516-R2M
±45° Omnidirectional Antenna

Decibel®
Base Station Antennas



ELECTRICAL

Frequency Range (MHz):	1710 - 2160
Characteristic Impedance (Ohms):	50
Antenna SWR (Avg):	0.45 ± 0
Element SWR (Avg):	7.2 ± 1.2
Gain (dBi):	17.5 ± 0.5
Beamwidth:	±45°
Back Ratio (dB):	±20
Front-to-Back Ratio (dB):	±20
Isolation (dB):	±20
VSWR:	±1.5
SWR @ 2 x 2 (dB):	±1.5
Max. Input Power (Watt):	250
Impedance (Ohms):	50
Lightning Protection:	DC Ground

PERFORMANCE TRACKING

Gain Variation (dB) (between UL and DL frequency pair):	1.3
SWR Variation (dB) (between UL and DL frequency pair):	±0.25
Antenna SWR (Avg) (between UL and DL frequency pair):	11.5

MECHANICAL

Net Weight (kg / lb):	18.7 / 41.6
Dimensions (L x W x H):	1490 x 300 x 100 mm
	(58.7 x 11.8 x 3.9 in)
Max. Wind Area (m² / ft²):	0.27 / 2.9
Max. Wind Load (150 mph):	728.4 / 164
Max. Wind Speed:	241 / 150
Hardware Standard:	1-18 DIN, Female (4)
Connector Type:	DC White
Color:	DC White
Standard Mounting Hardware:	TJUC0598A-2

Andrew Corporation
2201 Telecom Parkway
Riverside, Texas 75381-3221
Tel: 214.821.8219

Fax: 214.821.1788
Tel/Fax: 1.800.678.5343
Fax: 1.800.223.4700
www.andrew.com

Information correct at date of issue but may be subject to change without notice.

PROPOSED ANTENNAS

T-Mobile
stick together

19100 TELLO DRIVE, SUITE 200
SAN DIEGO, CA 92121

PLANS PREPARED BY:
MASSON & ASSOCIATES, INC.
CONSULTING ENGINEER

Cortel

NO.	DATE	DESCRIPTION	BY
0	03/23/08	ZONING 80%	S/V
1	04/02/08	ZONING 100%	S/V
2	04/17/08	ADD LETTER	S/V

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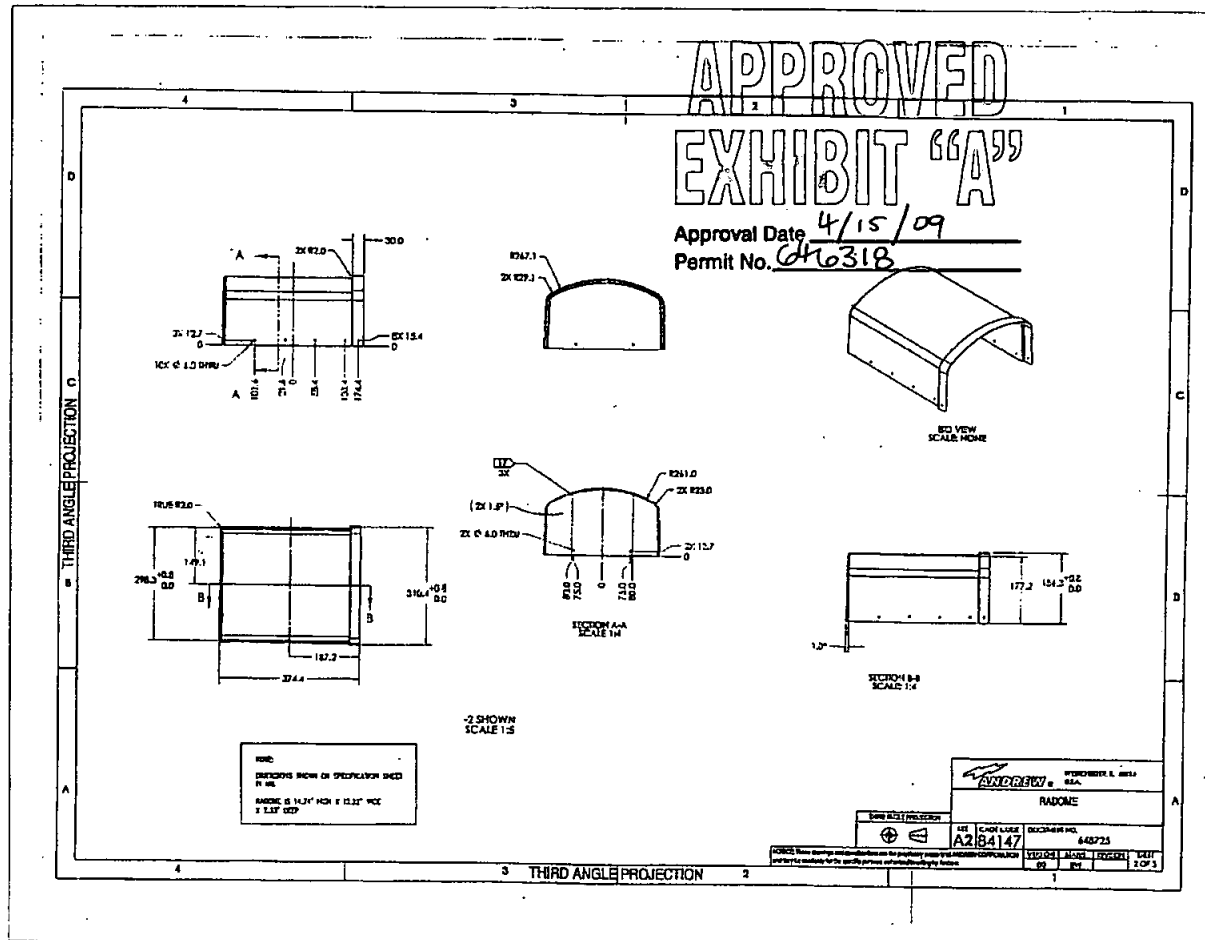
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SD06345A
SPRING CANYON PARK
10807 SCRIPPS FOWAY PARKWAY
SAN DIEGO, CA 92131

STAMP:

SHEET TITLE:
DETAILS

SHEET NUMBER:
A-4



T Mobile
stick together
1918 FLEET DRIVE, SUITE 200
SAN DIEGO, CA 92101

PLANS PREPARED BY:
MASSON & ASSOCIATES, INC.
10000 Rte. 52, Suite 200
San Diego, CA 92121
P: 619-448-4000
F: 619-448-4001
www.masson-associates.com

CONSULTING GROUP:
Cortel

NO.	DATE	DESCRIPTION	BY
0	03/23/09	ZONING 0002	SLV
1	04/02/09	ZONING 1002	SLV
2	04/17/09	ADD LETTER	SLV

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SITE INFORMATION
SD06345A
SPRING CANYON PARK
16987 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92131

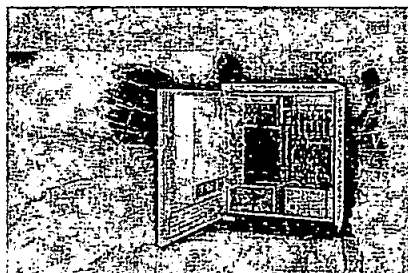
STAMP:

SHEET TITLE:
DETAILS

SHEET NUMBER:
A-5

SCREENING DETAILS

SCALE:
NOT TO SCALE 1



RBS 2102

Technical Specifications for
RBS 2102 Radio Base Station for Ericsson's GSM System

Frequency band:	9-GSM 900 GSM 1800 GSM 1900
TX:	825-895, 1850-1910 or 1850-1920 MHz
Power:	50W-55W, 170W-175W or 125W-126W
Number of transmitters:	1-2
Number of antennas:	1-2
Transmitter interface:	1.2 MHz PPS, 2 MHz PPS
Dimensions (H x W x D):	1814 x 1300 x 710 mm (71 1/4 x 51 1/4 x 28 1/8 in)
Weight (without batteries):	460 kg (1015 lbs)
Power cable interface:	30 W / 4.5 A @ 240V AC / 100V
Power cable interface:	25 W / 4.5 A @ 240V AC / 100V
Power supply:	240V-250V AC, 50 / 60 Hz
Integrated battery back-up:	Typical 4 hours (4V nominal)
Operating temperature:	-25°C to +55°C (23°F to +132°F)
Humidity:	5% to 95% RH

EXISTING CABINETS

RBS 2106

The GSM Macro Outdoor Base Station



Technical specification for RBS 2106

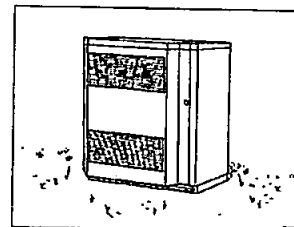
Frequency band:	9-GSM 900 GSM 1800 GSM 1900
TX:	825-895, 1850-1910, 1850-1920 MHz
Power:	55W-60W, 170W-175W, 175W-176W
Number of transmitters:	1-2
Number of antennas:	1-2
Transmitter interface:	1.2 MHz PPS, 2 MHz PPS
Dimensions (H x W x D):	1814 x 1300 x 710 mm (71 1/4 x 51 1/4 x 28 1/8 in)
Weight (without batteries):	460 kg (1015 lbs)
Power cable interface:	30 W / 4.5 A @ 240V AC / 100V
Power supply:	240V-250V AC, 50 / 60 Hz
Integrated battery back-up:	Typical 4 hours (4V nominal)
Operating temperature:	-25°C to +55°C (23°F to +132°F)
Humidity:	5% to 95% RH

**APPROVED
EXHIBIT "A"**

Approval Date 4/15/09
Permit No. 646310

PROPOSED CABINET

3106 / Outdoor

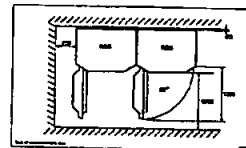


A space of 100 mm is recommended to the left of the RBS to avoid obstructing the door. The use of the cabinet requires a working space and sufficient airflow.

Installation and maintenance require that the door can be opened at least 90°. A 10 mm gap should be maintained behind the cabinet.

If the RBS is located next to another cabinet of the same depth, an additional space is required to enable the door to open 90°. However, if the RBS is placed behind a wall, then a 100 mm gap is required to the left of the cabinet to enable the door to open 90°. The installation requirements are shown in the figure below.

A vent can be placed over the cabinet during service to protect the equipment from bad weather.



PROPOSED CABINET

UNIT	HEIGHT (H) (mm)	HEIGHT (H) (in)	WIDTH (W) (mm)	WIDTH (W) (in)	DEPTH (D) (mm)	DEPTH (D) (in)
FULLY EQUIPPED EXISTING BATTERIES	1125	44.3"	61.0"	23.9"	27.0"	10.6"
FULLY EQUIPPED EXISTING BATTERIES	1625	64.0"	61.0"	23.9"	27.0"	10.6"
FULLY EQUIPPED EXISTING BATTERIES	1825	71.8"	61.0"	23.9"	27.0"	10.6"
PROPOSED CABINET	1125	44.3"	61.0"	23.9"	27.0"	10.6"
INSTALLATION FRAME	27	1.0"	61.0"	23.9"	27.0"	10.6"

T-Mobile
stick together
1800 THE T-MOBILE NUMBER
SAN DIEGO, CA 92161

PLANS PREPARED BY:
Planning, Engineering, Surveying, Inspection
228 East Washington Ave., Suite 200
San Diego, CA 92101
P: 619.441.1000
F: 619.441.1001
www.mason-engineering.com

CONSULTING GROUP:

Cortel

REV.	DATE	DESCRIPTION	BY
0	03/23/09	ZONING 90%	S.V.
1	04/02/09	ZONING 100%	S.V.
2	04/17/09	ADD LETTER	S.V.

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SITE INFORMATION:

SD06345A

SPRING CANYON PARK

18901 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92131

STAMP:

DETAILS

SHEET NUMBER:

A-6

APPROVED EXHIBIT "A"

Approval Date 4/15/09
Permit No. 646318

SPECIFICATIONS

OneBase Dual Band Dual Duplex TMA

Backhaul

UPLINK
AWS frequency range, MHz 1710-1755
PCS frequency range, MHz 1850-1915
Ook, dB 12 dB
Total group delay - AWS band, ns 30
Total group delay - PCS band, ns 150
Delay variation - any 5 MHz BW, ns 40
Group delay distortion - any 240 kHz BW, ns 30
Noise figure - midband, dB 1.1 typical
Noise figure - AWS, dB 1.20 max
Noise figure - PCS, dB 1.7 max
Output P_{1dB}, dBm +28 typical
Return loss, dB 18

Downlink

AWS frequency range, MHz 2110-2155
PCS frequency range, MHz 1920-1980
Insertion loss - AWS band, dB 0.1 typical, 0.2 max
Insertion loss - PCS band, dB 0.1 typical, 0.2 max
Group delay, ns 30
Delay variation - any 5 MHz BW, ns 40
Return loss, dB 18
IMD at antenna port (2 x +43 dBm), dBm +17
Power handling - operational, dBSm +43 (200)
Power handling - service, dBSm +37 (120)

ASG

Alarm sensitivity 255 to 1000
Antenna support 30mm Ø steel

POWER

Power supply voltage, Vdc 18-36
Operating current, mA 180-200
Idle current consumption, mA <100

Environmental

Operating temperature range, °C -40 to +40
Ingress protection IP2
Lightning protection antenna port 6 point
Lightning protection BTS port 10 kA, 0/20 µs

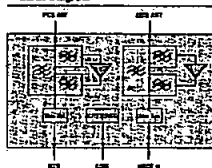
Mechanical

Dimensions, mm (in) 328 x 114 x 91
Weight w/o mounting hardware kg (lb) 0.172 (0.38)
Finish RAL 5010
Connectors - RF 7-16 UNF female
Connectors - ASG 8-pin, ID 0219
Ground screw diameter, in 1/4" UNF

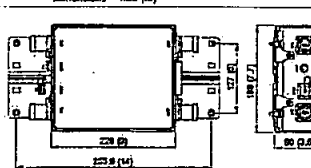
Part Numbers

Dual duplex dual band TMA, AWS and PCS 730 W20723

Block Diagram



Dimensions - mm (in)



Ordering Information

SPECIFY MODEL NUMBER TO ORDER TMA WITH ACCESSORIES AS SHOWN:

Model Number	Description	Accessories
ET11 PVT2A1 2L8	Full duplex dual band AWS, PCS and PCS	Mounting hardware



One Company. A World of Solutions.

Andrew Corporation
3 Woodbrook Corporate Center
Suite 900
Woodbridge, NJ 07095 USA

Customer Support Center
From North America
Telephone: 1-800-253-1479
Fax: 1-800-245-5444

International
Telephone: +1-708-230-0000
Fax: +1-708-497-3500
Internet: www.andrew.com

All designs, specifications and availability of product and services presented in this bulletin are subject to change without notice.
Andrew 000000 B/04
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T-Mobile
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19700 TELECOM COURT, SUITE 200
SAN DIEGO, CA 92128

PLANS PREPARED BY:

MASSON & ASSOCIATES, INC.
Planning • Engineering • Surveying • Inspection
380 First International Ave., Suite 200
Palo Alto, CA 94301
P: 650.341.2500
F: 650.341.3100
www.masson-engineering.com

CONSULTING GROUP:

Cortel

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1	04/02/08	ZONING 1001	SJV
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SITE INFORMATION:

SD06345A

SPRING CANYON PARK

18807 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92131

STAMP:

SHEET TITLE:

DETAILS

SHEET NUMBER:

A-7

TMA DETAILS

SCALE
NOT TO SCALE 1

[illegible][illegible]

GENE symbol	A	B	C
EMF1-5, 5'UTR	A	B	C
Antennae legs	Not Used	Not Used	Not Used
Antennae only			
Brain/Heart	B	B	B
Heart			
Antennae & Brain/Heart	100	100	200
Whole-mount TIS	0	0	0
Whole-mount TIS	0	0	0
NET & Antennae Length	0	0	0
Trachea			
RNA seq	Not Used	Not Used	Not Used

[illegible]

Cabinet	1	2	3	4
Existing Cabinet?	Upgrade	Upgrade	Not Used	Not Used
Cabinet type	621 708	605 708	Not Used	Not Used
Number of ESSE Trk	0	0	7	0
New Cabinet Dimensions	63.4" x 23.4" x 22.4"	63.4" x 23.4" x 22.4"		

Approval Date 4/15/09
Permit No. 646318

PLANS PREPARED BY:
 Kelly-Weir Construction, Inc.
 7525-10th Avenue, Suite 100, Fort Collins, CO 80526
 (970) 225-1100

Planning, Engineering, Landscaping, Interiors

3000 West Washington Ave., Suite 200
 Fort Collins, CO 80526
 P. 960.741.2570
 F. 960.741.1786

2900 East Harmony Dr., Suite 200
 Fort Collins, CO 80526
 P. 951.444.6263
 F. 951.444.6269

MASSON & ASSOCIATES, INC.

www.masson-associates.com

NO.	DATE:	DESCRIPTION:	BY:
0	03/23/09	ZONING 90%	SJV
1	04/02/09	ZONING 100%	SJV
2	04/17/09	ADD LETTER	SJV

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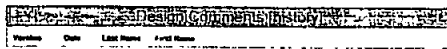
SD06345A
SPRING CANYON PARK
19037 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92131

STAMP:

A-8

SCALE	1
NOT TO SCALE	

Approval Date 4/15/09
Permit No. 646318

[illegible]

Market Comments			
Version	Date	Last Run	First Run

Change Management

6. PT photo spectra of monomer, dimer, etc.

[illegible]

Site ID	Receptor ID	A lat	A lon	A elev	R lat	R lon	R elev	Factor	P Elev	Cont
SD02-04A		7	DEERWOODPTS.W	128	8					
SD04-04A		5	DEERWOODPTS.W	129	-3					
SD03-04A		1	DEER-HALFPT. T3	126	8					

10-10-1964

Site_ID	SD0030004	Latitude	32.828
Site_Type	Flow Area	Longitude	-117.084
Site_Class	Utility Mono-Pipe	Calculated_Tpo	2
Address	Avalon+VENICE Street Power Plant San Diego CA City Address is 50000 San Diego Power Plant		

Andrews data											
	Type	Class	Model	Features	Attribute	W T21	W T22	W T23	W T24	Previous class	Length
Albert Andrews	Cloud photo	7	Unknown	1	21	22	23	24			

[illegible]

Height

Start Address Data scope Unpack to main

End Address

Sub-I, Address				
Sub-I, Airway				
Height	6'			

[illegible][illegible]

CH202	AsGrysis				
CH203	AsGrysis				
CH204	AsGrysis				
CH205	AsGrysis				

Cabinet #	Radius Avail	Radius Agreed	Type

1				Alpha_Condition_Type	
2				Beta_Condition_Type	
3				Gamma_Condition_Type	

T-Mobile
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19440 TELECOM COURT, SUITE 200
SAN DIEGO, CA 92121

PLANS PREPARED BY:
 2025, 2016 & 172000 sq. ft. approx.
 100% complete. 100% complete. 100% complete. 100% complete.

Planning • Engineering • Surveying • Geology
 220 East Washington Ave., Suite 200
 San Francisco, CA 94102
 P. 415.774.1331
 F. 415.774.1786

**2000's New Design, 2000's
 2000's New Design, 2000's
 2000's New Design, 2000's
 P. 415.774.1331
 F. 415.774.1786**

**MASSON
 & ASSOCIATES, INC.**

Cortel

NO.	DATE	DESCRIPTION	BY
0	03/23/09	ZONING PGM	SJV
1	04/02/09	ZONING 100%	SJV
2	04/17/09	ADD LETTER	SJV

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SITE INFORMATION:

SD06345A

SPRING CANYON PARK

19207 SCHIFFS POINT PARKWAY
SAN DIEGO, CA. 92131

STAMP:

DETAILS

A-9

APPROVED EXHIBIT "A"

Approval Date 4/15/09
Permit No. 046318

DEVELOPMENT SERVICES ACTION:

It has been determined by Development Services that this proposal substantially conforms to previously approved permit #95-0150-128.

Development Services grants APPROVAL of your application subject to the following:

- Substantial Conference Review to Permit #95-0150-128
646318, SCLR/Wireless Communication Antenna, Spring Canyon Park
10907 Scripps Poway Parkway, San Diego, CA
PTS Number # 17873543-2285
- The facility shall be designed and constructed in accordance with the approved Exhibit "A", dated April 15, 2009. No modification or alteration shall be permitted to the approved Exhibit "A" unless revised plans are submitted and approved by Development Services.
- The Substantial Conference Review permits three (3) replacement antennas and two (2) replacement DTS equipment cabinets as illustrated on the approved Exhibit "A" dated April 15, 2009.
- The proposed replacement antennas shall be painted to match the existing light standard to the satisfaction of the City Manager.
- Final inspection sign-off shall not be granted until the final product conforms to the stamp approved plans and approved photoinsulations.
- Prior to planning inspection, T-Mobile shall provide certification describing evidence that the cumulative field measurements of radio frequency power densities for all antennas installed on the premises are below the federal standards.
- All equipment, including transformers, emergency generators and air conditioners belonging to T-Mobile shall be designed and operated consistent with the City noise ordinance. Ventilation openings shall be baffled and directed away from residential areas. Vibration recurrence of operating equipment in the equipment enclosures shall be eliminated.
- All facilities and related equipment shall be maintained in good working order and free from trash, debris, graffiti and designed to discourage vandalism. Any damaged equipment shall be repaired or replaced within thirty (30) calendar days.
- Once this site is deemed complete from construction, T-Mobile is required to send a letter (Subject: Planning Inspection PTS Number 178735) to the City of San Diego, Development Services Department requesting for a planning inspection. The site is officially deemed complete once the City Manager signs

the letter. The applicant shall be provided with a copy of the signed letter for record purposes.

- T-Mobile is responsible for notifying the city prior to the sale or takeover of this site to any other provider or if the site is no longer operational resulting in the removal and the restoration of this site to its original condition.
- Per LDC Section §99.3.0404 Construction Noise (c), It shall be unlawful for any person, between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the San Diego Municipal Code, with exception of Columbus Day and Washington's Birthday, or on Sundays, to erect, construct, demolish, excavate for, alter or repair any building or structure in such a manner as to create disturbing, excessive or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator.

Attempston
Alex Attempston, AICP
Associate Planner

T-Mobile
stick together

WWW.T-MOBILE.COM, 800.950.5511
SAN DIEGO, CA 92121

PLANS PREPARED BY:
San Diego Planning Department
Planning - Engineering - Surveying - Information
220 West Washington Ave., Suite 200
San Diego, CA 92101
T: 619.441.2200
F: 619.441.2200
WWW.SANDEGOCITY.ORG

MASSON & ASSOCIATES, INC.

Cortel

NO.	DATE	DESCRIPTION	BY
0	03/23/00	ZONING 90%	SJV
1	04/02/09	ZONING 100%	SJV
2	04/17/09	ADD LETTER	SJV

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SITE INFORMATION

SD06345A
SPRING CANYON PARK
10907 SCRIPPS POWAY PARKWAY
SAN DIEGO, CA 92121

STAMP

SHEET TITLE:

CONFORMANCE REVIEW

SHEET NUMBER:

A-10

CONFORMANCE REVIEW

SCALE:
NOT TO SCALE

1



T-Mobile USA, Inc.

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 12, 2009

City of San Diego
Attn: Real Estate Assets, RE: Property File - I620-1
1200 Third Avenue, Suite 1700, MS 51A
San Diego, CA 92101-4199

Re: Cell Site Location: **Scripps Canyon Community Park AKA Spring Canyon Park 10056 Scripps
Poway Parkway, San Diego, CA**
Cell Site ID: **SD06345A, Spring Canyon Park**

Dear Sir or Madam:

Pursuant to the above-referenced site and location, your consent is requested to enhance our equipment as more specifically described in the Site Upgrade Checklist enclosed.

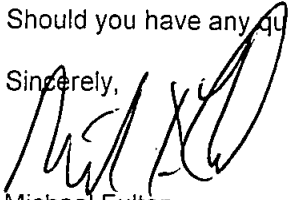
Enclosed you will find two (2) original letters, two (2) original Site Upgrade Checklists and one (1) addressed, stamped envelope.

To confirm your consent of the proposed activity, please sign and date the Acceptance and Acknowledgement below and initial the attached Site Upgrade Checklist.

Please return only one, signed original of each document in the addressed, stamped envelope provided in this package. The second, original of each document is for your records.

Should you have any questions regarding this upgrade, please contact Susan Miller at (858) 334-6143.

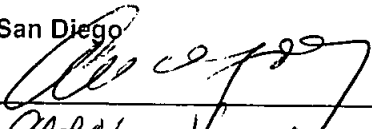
Sincerely,


Michael Fulton
General Manager, Engineering and Operations

ACKNOWLEDGED, ACCEPTED AND AGREED:

Lessor:

City of San Diego

By: 

Name: Carol Young

Title: Property Agent

Date: 4/16/09