

THE COUNTY OF RIVERSIDE

AND THE CITY OF CORONA

MEMORANDUM OF UNDERSTANDING

FOR GRAPE HILL SITE SIMULCAST CELL INSTALLATION

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**THE COUNTY OF RIVERSIDE**  
**AND THE CITY OF CORONA**  
**MEMORANDUM OF UNDERSTANDING**  
**FOR GRAPE HILL SITE SIMULCAST CELL INSTALLATION**

**1.0 PURPOSE**

This Memorandum of Understanding ("MOU") is entered into by and between the County of Riverside, on behalf of its Riverside County Information Technology ("COUNTY"), and the City of Corona ("AGENCY"). This MOU provides the mechanism, and defines the roles and responsibilities, through which these parties will work together to accomplish the goal of installing and maintaining one additional radio site in the PSEC system.

COUNTY and AGENCY agree to the following roles, responsibilities, and accompanying terms and conditions, which will be effective immediately and remain in effect until terminated or modified as defined in Section 4.0 of this MOU.

**2.0 SCOPE**

COUNTY, in partnership with AGENCY, shall purchase and install one additional simulcast remote site into the Northwest simulcast cell of the COUNTY of Riverside Public Safety Enterprise Communications ("PSEC") system ("Project").

This scope of the Project includes installation of Motorola radio equipment and all other associated equipment required to establish an additional simulcast remote site with eight channels, as further described in Attachment B "Detailed Statement of Work and Additional Contributions" ("Radio Equipment") on certain real property owned by the AGENCY generally located at 742 John Circle, City of Corona, County of Riverside (Assessor's Parcel Number 115-100-047-1) and generally referred to as Grape Hill ("Grape Hill Site"). On the Grape Hill Site, the AGENCY also owns an existing sixty (60) foot high self-supporting lattice structure used for telecommunications purposes ("Existing Tower").

The addition of the Grape Hill Site increases the Northwest simulcast cell site count to quantity 14.

The COUNTY will be responsible for the following equipment and services:

1. COUNTY will provide procurement services for the Motorola equipment and services and the Pepro cabinet. The Motorola services will include design changes to the radio system, build, testing and shipment of the radio equipment.
2. The COUNTY will provide payment for the Motorola equipment and services and the Pepro cabinet as defined in Attachment A "City of Corona and County of Riverside Radio Equipment Procurement"
3. The COUNTY will install the equipment, test and optimize the Motorola equipment.

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4. The COUNTY will provide services and all necessary resources to integrate and provision the Grape Hill Site into the PSEC system.
5. The COUNTY will install the Pepro equipment cabinet onto the existing equipment pads at the site.
6. The County will install radio equipment in the Pepro cabinet.
7. The COUNTY will install Radio antennas on the Existing Tower.
8. The COUNTY will procure and install the NOKIA microwave backhaul link between the Grape Hill site and the COUNTY's Arlington site.
9. The COUNTY will assemble, configure and optimize the NOKIA microwave backhaul link.
10. COUNTY will provide FCC and AQMD licensing services.
11. The COUNTY will participate with the AGENCY in testing the Radio Equipment for functionality and coverage performance.
12. The COUNTY will update the PSEC system documentation to include the Radio Equipment at the Grape Hill Site.
13. The COUNTY will remove the existing temporary site trailer from the Grape Hill site.
14. The COUNTY will provide ongoing maintenance for the Radio Equipment.
15. The COUNTY will assume financial obligation for ongoing power costs.
16. The COUNTY will provide fuel for the fuel tank and generator.

The AGENCY will provide the following equipment and services

1. The AGENCY shall pay to COUNTY the amounts set forth in Section 14 "COMPENSATION" and Attachment A.
2. The AGENCY will provide unencumbered access to the Grape Hill Site, as described further in Section 13 "LICENSE FOR RADIO EQUIPMENT AT GRAPE HILL SITE."
3. The AGENCY will provide access to the existing equipment cabinet pad including access to power and underground conduits.
4. The AGENCY will provide commercial power from the existing meter on the Grape Hill Site to the existing electrical switch gear located within the site cage area (previous cell carrier site).
5. The AGENCY will provide access to the Existing Tower including providing adequate mount spaces, at the specified heights, for all the antennas and corresponding transmission lines required for the Project.
6. The AGENCY will provide access to the conduits connecting the Existing Tower to the Radio Equipment.
7. The AGENCY will provide the site 25-kilowatt generator and 500-gallon fuel tank.
8. The AGENCY will provide and install equipment pads for the 25-kilowatt generator and 500-gallon fuel tank.

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9. The AGENCY will connect the site generator's power and alarm lines to the ATS via underground conduit.

10. The AGENCY will provide fuel lines between the generator and the fuel tank.

11. The AGENCY will participate with the COUNTY in testing the Radio Equipment for functionality and coverage performance.

#### **3.0 OWNERSHIP AND MAINTENANCE OF RADIO EQUIPMENT.**

COUNTY will assume full ownership of the Radio Equipment, including, without limitation, all ancillary support equipment (i.e. generators, fuel tanks etc), which will be integrated into the PSEC system. To this end, upon completion of the installation of the ancillary support equipment to be purchased and installed by AGENCY, COUNTY shall be the sole owner of such equipment. AGENCY shall execute a deed, bill of sale or other document evidencing AGENCY's transfer to COUNTY of ownership of such equipment.

COUNTY will monitor, maintain and repair the Radio Equipment subsequent to installation and integration into the PSEC system. COUNTY will provide fuel for the PSEC backup generators and COUNTY will assume financial responsibility for the reoccurring monthly electric bill to provide power to the Radio Equipment at the Grape Hill Site. Once the Radio Equipment becomes operational and is connected to the PSEC system, COUNTY will request the related electric service account be transferred to the COUNTY and AGENCY will provide any authorization necessary to transfer the account to the COUNTY. The Radio Equipment located at Grape Hill Site will undergo software upgrades in alignment with the existing PSEC upgrade schedule.

#### **4.0 TERM**

This MOU shall be effective upon execution by the signature of the COUNTY's Assistant COUNTY Executive Officer/CIO and the AGENCY's City Manager or their respective designees. The term of this MOU shall be coterminous with the term of the PSEC Use Agreement with the City of Corona, on behalf of its Police Department (the "PSEC Use Agreement"), which is set to expire on December 30, 2026. In the event of termination or expiration of the PSEC Use Agreement, this MOU shall automatically renew only if the PSEC Use Agreement is renewed. At the expiration or termination of this MOU, COUNTY shall quit and surrender possession of the Grape Hill Site, (excluding all equipment provided as part of this MOU) to AGENCY in as good order and condition as the Grape Hill Site was in as of the date the Radio Equipment is installed, reasonable wear and tear and damage by the elements excepted.

#### **5.0 AMENDMENT OR TERMINATION OF MOU**

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This MOU, along with any incorporated attachments, fully expresses all understandings of the parties concerning all matters covered and shall constitute the total MOU. No addition to, or alteration of, the terms of this MOU whether by written or verbal understanding of the parties, their officers, agents or employees, shall be valid unless made in the form of a written amendment to this MOU formally approved and executed by both COUNTY and AGENCY.

This MOU may be amended at any time with the written concurrence of all parties. This MOU can be terminated with or without cause by either party upon thirty (30) days written notification to the other party. Termination of the MOU will take effect thirty (30) days following receipt of the written notice of termination or upon effective date of funding expiration. In the event this MOU is terminated by AGENCY prior to the Radio Equipment being operational, AGENCY will be responsible for its portion of the cost and payment of any equipment/services, as specified in Attachments "A" and "B" that were ordered prior to the date AGENCY terminates the MOU. In the event this MOU is terminated by COUNTY prior to the Radio Equipment being operational, COUNTY will be responsible for its portion of the cost and payment of any equipment/services, as specified in Attachments "A" and "B" that were ordered prior to the date COUNTY terminates the MOU.

**AGENCY REPRESENTATIVES**

The following agency representatives will serve as the primary points of contact to accomplish the terms of this MOU.

COUNTY: Public Safety Enterprise Communication  
ATTN: PSEC Manager  
3450 Fourteenth Street  
Riverside, CA 92501

AGENCY: City of Corona  
ATTN: Police Chief  
730 Public Safety Way  
Corona, CA 92880

**6.0 ROLES AND RESPONSIBILITIES**

6.1 AGENCY shall:

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- As defined in Attachment A “City of Corona and County of Riverside Radio Equipment Procurement “

#### 6.2 COUNTY shall:

- As defined in Attachment A “City of Corona and County of Riverside Radio Equipment Procurement”

#### **7.0 RECORDS RETENTION**

Each party agrees to retain all records pertaining to the MOU for the period indicated in their respective records retention schedule unless otherwise indicated by the source of funds or program legislation. If, at the end of the retention period, there is ongoing litigation or an audit involving those records, each party shall retain the original records until resolution of such litigation or audit.

#### **8.0 CONFIDENTIALITY**

All parties agree to maintain the confidentiality of all client information in accordance with all applicable Federal, State, and local laws and regulations. Both parties will ensure names, addresses, phone numbers, and any other individually identifiable information concerning clients and services received are kept confidential.

#### **9.0 HOLD HARMLESS AND INDEMNIFICATION**

Each party (referred to as “indemnitor”) shall indemnify and hold harmless the other party including its officers, employees and agents (referred to as “indemnities”) from any liability, damage, claim, or action based on or asserted upon any negligence or willful misconduct of indemnitor, its officers, employees, or agents related to this MOU, including but not limited to property damage, bodily injury or death. Indemnitor shall defend, at its sole expense (including all costs and fees, including but not limited to attorney fees, cost of investigation, defense and settlements or awards) in any claim or action based upon such acts or services.

#### **12.0 ASSIGNMENT**

This MOU shall not be assigned by any party hereto, either in whole or part, without prior written consent of the other party. Any assignment or purported assignment of this MOU without the prior written consent will be deemed void and of no force or effect.

#### **13.0 LICENSE AND CERTIFICATIONS**

All parties verify upon execution of this MOU, that all work performed pursuant to this MOU will, when applicable, possess a current and valid license/certification in compliance

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with any local, State, and Federal laws and will be performed by properly trained and licensed/certified staff.

**14.0 LICENSE FOR RADIO EQUIPMENT AT GRAPE HILL SITE**

Subject to the terms and conditions of this MOU, AGENCY hereby grants to COUNTY and its employees and agents a non-exclusive right to use the Existing Tower for the purpose of installing constructing, operating, maintaining and repairing the Radio Equipment, including any ancillary support equipment in accordance with this MOU. Subject to the terms and conditions of this MOU, AGENCY hereby grants to COUNTY and its employees and agents a non-exclusive right for pedestrian and vehicular ingress and egress from a public right-of-way across the Grape Hill Site to the Existing Tower.

COUNTY shall have the right of access without escort to the Existing Tower for its employees and agents twenty-four (24) hours a day, seven (7) days per week. In exercising its right of access, COUNTY agrees to cooperate with any reasonable security procedures utilized by the AGENCY, and further agrees not to unduly disturb or interfere with the AGENCY's use of the Grape Hill Site or the Existing Tower. In the event COUNTY desires to have a contractor or other third party, who is not an employee of COUNTY, access the Grape Hill Site or the Existing Tower, said contractor or third party shall be accompanied at all times by an official or employee of COUNTY. If COUNTY or its employees, agents, contractors or subcontractors cause any damage to the Grape Hill Site or the Existing Tower, COUNTY shall promptly repair the same at its sole expense.

**15.0 INSURANCE**

**15.1 COUNTY**

**A. Workers' Compensation:**

If the COUNTY has employees as defined by the State of California, the COUNTY shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation against of AGENCY, its directors, officials, officers, employees, agents and volunteers.

**B. Commercial General Liability:**

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of COUNTY'S performance of its obligations hereunder. Policy shall name the AGENCY, its directors, officials, officers, employees, agents and volunteers as

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Additional Insured. Policy's limit of liability shall not be less than \$2,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this MOU or be no less than two (2) times the occurrence limit.

C. Vehicle Liability:

If vehicles or mobile equipment are used in the performance of the obligations under this MOU, then COUNTY shall maintain liability insurance for all owned, non-owned or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this MOU or be no less than two (2) times the occurrence limit. Policy shall name the AGENCY, its directors, officials, officers, employees, agents and volunteers as Additional Insureds.

D. General Insurance Provisions - All Policies:

1) The COUNTY must declare its self-insured retention for each coverage required herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall have the prior written consent of the AGENCY'S Risk Manager before the commencement of operations under this MOU. Upon notification of self-insured retention unacceptable to the AGENCY, and at the election of the County's Risk Manager, COUNTY'S carriers shall either; 1) reduce or eliminate such self-insured retention as respects this MOU, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

2) In the event of a material modification, cancellation, expiration, or reduction in coverage, this MOU shall terminate forthwith, unless AGENCY receives another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. COUNTY shall not commence operations under this MOU until the AGENCY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of Insurance.

3) It is understood and agreed to by the parties hereto that the COUNTY'S insurance shall be construed as primary insurance, and the AGENCY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

4) If, during the term of this MOU or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the AGENCY reserves the right to adjust the types of insurance and the monetary limits of liability required under this Agreement, if



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in the AGENCY'S Risk Manager's reasonable judgment, the amount or type of insurance carried by the COUNTY has become inadequate.

5) COUNTY shall pass down the insurance obligations contained herein to all tiers of subcontractor working under this MOU.

6) The insurance requirements contained in this MOU may be met with a program(s) of self-insurance acceptable to the AGENCY.

7) COUNTY agrees to notify AGENCY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement

#### 15.2 AGENCY

##### A. Workers' Compensation:

If the AGENCY has employees as defined by the State of California, the AGENCY shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation against the COUNTY.

##### B. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of AGENCY'S performance of its obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall not be less than \$2,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this MOU or be no less than two (2) times the occurrence limit.

##### C. Vehicle Liability:

If vehicles or mobile equipment are used in the performance of the obligations under this MOU, then AGENCY shall maintain liability insurance for all owned, non-owned or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this MOU or be no less than two (2) times the occurrence limit. Policy shall name COUNTY as Additional Insureds.

##### D. General Insurance Provisions - All Policies:

1) The AGENCY must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall have the prior written consent of the COUNTY Risk Manager before the commencement of operations by AGENCY under this MOU. Upon notification of self-insured retention unacceptable to COUNTY, and at the election of the AGENCY's Risk

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1 Manager, AGENCY'S carriers shall either; 1) reduce or eliminate such self-insured  
2 retention as respects this Agreement with the AGENCY, or 2) procure a bond which  
3 guarantees payment of losses and related investigations, claims administration, and  
4 defense costs and expenses.

5 2) In the event of a material modification, cancellation, expiration, or reduction in  
6 coverage, this MOU shall terminate forthwith, unless the COUNTY receives another  
7 properly executed original Certificate of Insurance and original copies of endorsements  
8 or certified original policies, including all endorsements and attachments thereto  
9 evidencing coverage's set forth herein and the insurance required herein is in full force  
10 and effect. AGENCY shall not commence operations until the COUNTY has been furnished  
11 original Certificate (s) of Insurance and certified original copies of endorsements and if  
12 requested, certified original policies of insurance including all endorsements and any and  
13 all other attachments as required in this Section. An individual authorized by the  
14 insurance carrier to do so on its behalf shall sign the original endorsements for each policy  
15 and the Certificate of Insurance.

16  
17 3) If, during the term of this MOU or any extension thereof, there is a material change  
18 in the scope of services; or, there is a material change in the equipment to be used in the  
19 performance of the scope of work; or, the term of this MOU, including any extensions  
20 thereof, exceeds five (5) years; the COUNTY reserves the right to adjust the types of  
21 insurance and the monetary limits of liability required under this MOU, if in the COUNTY  
22 Risk Manager's reasonable judgment, the amount or type of insurance carried by the  
23 AGENCY has become inadequate.

24 4) AGENCY shall pass down the insurance obligations contained herein to all tiers of  
25 subcontractor working under this MOU.

26 5) The insurance requirements contained in this MOU may be met with a program(s)  
27 of self-insurance acceptable to the COUNTY.

28 6) AGENCY agrees to notify COUNTY of any claim by a third party or any incident or  
29 event that may give rise to a claim arising from the performance of this MOU.

30  
31  
32  
33  
34 **16.0 SEVERABILITY**

35 If any provision in this MOU is held by a court of competent jurisdiction to be invalid, void  
36 or unenforceable, the remaining provisions will nevertheless continue in full force  
37 without being impaired or invalidated in any way.  
38

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17.0 COMPENSATION

17.1 Maximum Amount:

- a) AGENCY and COUNTY shall pay for that portion of the equipment and services procured by the COUNTY from Motorola as set forth in Attachment A; provided that the AGENCY's share shall not exceed Six Hundred Twenty-Nine Thousand Four Hundred Twenty Dollars (\$629,420) ("AGENCY Equipment Contribution") and COUNTY's share shall not exceed Two Hundred Forty-Nine Thousand and Twenty Five Dollars (\$249,025).
- b) AGENCY and COUNTY shall each pay for an equal portion of contingency funding required for the Project as set forth in Attachment A; provided that the AGENCY's share shall not exceed Thirty-Four Thousand One Hundred Sixty-One Dollars (\$34,161) ("AGENCY Contingency Contribution") and COUNTY's share shall not exceed Thirty-Four Thousand One Hundred Sixty-One Dollars (\$34,161).
- c) COUNTY shall be directly responsible for the payment of all costs associated with the procurement or provision of the equipment and services described in Attachment B under the column "COUNTY Contribution." AGENCY shall be directly responsible for the payment of all costs associated with the procurement or provision of the equipment and services described in Attachment B under the column "AGENCY Contribution."

17.2 Method, Time and Schedule/Condition of Payment:

- a) COUNTY will bill the AGENCY for the AGENCY Equipment Contribution once equipment has been shipped and received by the COUNTY.
- b) COUNTY will bill the AGENCY for the AGENCY Contingency Contribution, if required, at conclusion of the Project.
- c) AGENCY shall issue payment within 30 days of date of invoice.

18.0 NOTICES

All notices, claims, correspondence, reports, and/or statements authorized or required by this MOU shall be addressed for each location as follows:

Riverside COUNTY COUNTY Department

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Administrative Manger II-Fiscal  
3450 14<sup>th</sup> Street  
Riverside, CA 92501  
Main Number: (951) 955-3700

AGENCY's

Administrative Services Manager III

AGENCY'S CONTACT INFORMATION

All notice shall be deemed effective when they are made in writing, addressed, as indicated above, and deposited in the United States mail. Any notices, correspondence, reports, and/or statements authorized or required by this MOU addresses in any other fashion will not be acceptable.

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**SIGNATURE PAGE**

IN WITNESS WHEREOF, this MOU has been executed by and on behalf of COUNTY and AGENCY's by the signatures of the duly authorized respective agents, and the day and year herein below.

COUNTY OF RIVERSIDE

CITY OF CORONA

3450 14<sup>th</sup> Street  
Riverside, CA 92501

400 South Vicentia Ave  
Corona CA 92882

**COUNTY OF RIVERSIDE,**  
a political subdivision of the State of California  
By:

**CITY OF CORONA,**  
a California municipal corporation

\_\_\_\_\_  
V. Manuel Perez, Chairman  
Board of Supervisors

By: \_\_\_\_\_  
Jacob Ellis  
City Manager

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ATTACHMENT A

City of Corona and County of Riverside Radio Equipment Procurement

Equipment/ Service		Cost	AGENCY Contribut ion	COUNTY Contributi on
Motorola Simulcast Radio Equipment and Services	Motorola channel trunked Simulcast Site (include.es 8 base station, site controllers, combiners and multicouplers, site switches, site routers, equipment racks RF routing equip, power supplies, SDM 3000 Alarm module. Cable Tray Ports, Motorola Coverage design, Network Update to include 2 new sites (TNCT file), Equipment order, equipment shipment, Installation of Racks into PEPRO Cabinet (includes shipment to site, bolt down, earthquake bracing, inter rack cable runs, grounding of equipment, RF cabling from Combiner/Multicoupler to Shelter L/A bridge, Power runs from Cabinet's Circuit Breaker Panel to Equipment racks, Power runs from Cabinet's Circuit Breaker Panel to Equipment racks	\$770,920	\$629,420	\$141,500
PEPRO Cabinet	Tall CLP3 with redundant HVAC and DC backup, cable entry port, electrical system, seismic rating, ATS, 8 hrs backup.	\$107,525		\$107,525
Project Contingency		68,322	\$34,161	\$34,161
<b>Total</b>		<b>\$946,767</b>	<b>\$663,581</b>	<b>\$283,186</b>

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**Attachment B**

**Detailed Statement of Work and Additional Contributions**

<b>Equipment/Service</b>	<b>Description</b>	<b>Cost or Value</b>	<b>AGENCY Contribution</b>	<b>COUNTY Contribution</b>
<b>Tower</b>	Existing tower	\$0.00	X	
<b>Generator</b>	25 KW Propane generator	\$17,000.00	X	
<b>Propane tank</b>	500 Gallon Above ground Propane tank	\$5,000.00	X	
<b>Microwave Equipment (provided as part of the Microwave project)</b>		\$200,000.00		X
	Wavence Microwave radios			X
	Dish			X
	Boxes			X
	Ice Shields			X
<b>Design Documents (PSEC Staff Provided)</b>		\$2,000.00		X
	Space and Heat (BTU) design			X
	floor layout			X
	Rackface drawings.			X
<b>Equipment Transportation</b>	Cabinet transportation	\$0.00		X
<b>Site Acquisition</b>		\$6,000.00	X	
	Project Description			X

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	Site Zoning		x	
	Topographic survey		x	
	Environmental CEQA/NEPA Threshold screening			
	GEOTECH			
	Air Survey			
	2A/1C Letter			
	Soil resistivity test	\$2,000.00		x
	Obtain Electrical, Building and construction permits		x	
	Obtain AQMD Permit	\$3,000.00		x
<b>Frequency (PSEC Staff Provided)</b>		\$4,000.00		x
	FCC Licensing of PSEC frequencies at the Grape Hill site			x
	Frequency Coordination			x
	EME Study			x
<b>Construction Planning/Documents (PSEC Staff Provided)</b>		\$16,000		x
	Construction Drawing Package			x
	Cabinet Pad Structural			x
	Tower Structural			x
	Cabinet earthquake bracing structural			x
	Tower Erection drawing including pylons			
<b>Construction Activity</b>		\$8,000.00	x	



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### MEMORANDUM OF UNDERSTANDING

#### FOR GRAPE HILL SITE SIMULCAST CELL INSTALLATION

	Perform light clearing of brush, grubbing and disposal of vegetation and shrub growth in		x	
	Construct 1 concrete slab for 500 gallon above-ground Liquid Propane (LP) fuel tank at Construct 1 concrete slab for 500 gallon above-ground Liquid Propane (LP) fuel tank at 3000 psi with reinforcing steel necessary for foundations.		x	
	Supply and install 1 500-gallon Liquid Propane (LP) fuel tank(s), fill it with fuel and connect it to the generator.		x	
	Supply and install fuel tank monitors on the tanks to monitor low fuel in tanks and run alarm wiring to the building located within 50 feet of the tank.		x	
	Install 1 standby power generator (25kW) located within 20 feet of the ATS, including interconnection wiring between the generator, transfer switch, and site electrical service mains. E		x	
	Construct 1 concrete slab for 25 KW propane generator. ( psi with reinforcing steel necessary for foundations		x	

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	to be determined by structural).			
	Supply and install 120/240-volt, 200-amp, single-phase meter pedestal and hookup for electrical service by the local utility.		x	
	Supply and install a perimeter grounding system around the compound and shelter. The ground system is to tie to the fence and all new metal structures within the compound to meet current Motorola Solutions' R56 standards.		x	
	Conduct a three-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of the COUNTY of Riverside PSEC		x	
	Supply and install 1 freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 20 linear feet).			
	Bonding generator and fuel tank to existing site ground ring			x

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**FOR GRAPE HILL SITE SIMULCAST CELL INSTALLATION**

<i>Cabinet Installation</i>				x
	Crane Cabinet onto pad			x
	Bolt Cabinet to Pad			x
	Bond Cabinet to existing Ground ring			x
<i>Tower Installation</i>				x
	Supply and install 1 ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.			x
	Mount 3 RF antennas to existing tower at open mount locations made available by the city			x
	Install 7/8 cables from antennas to cable entry port on cabinet.			x
	Dress cables and strap down cables. Gnd cables.			x
	Install 2 GPS antennas on Ice bridge. Run antenna lines from ice bridge to equipment cabinet. Dress cables and ground cables.			x
	Sweep antenna lines			x
<b>Microwave Installation (provided as part of the Microwave project)</b>		\$135,000.00		x
	Microwave Frequency Acquisition including FCC 601 application			x
	PCN Application			x
	Path surveys			x
	Dish and line installation			x
	DC rack installation			x

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	Microwave rack installation and grounding			x
	Microwave alignment, programming and optimization			x
	Provisioning and testing			x
<b>Optimization/Testing (PSEC Staff Provided)</b>		\$50,000.00		x
	Set launch Delays at NW Cell sites			x
	Set power levels at all stations in simulcast cell			X
	Box level test			x
	Simulcast testing			x
	Coverage sampling test			x
<b>Documentation (PSEC Staff Provided)</b>		\$5,000.00		x
	Design documents			x
	Update 20 site drawings			x
	Update infrastructure sheets			x
	Test Plans			x
	Method of Procedures			x
				x
<b>Project Management (PSEC Staff Provided)</b>		\$35,000.00		x