7. All work in accordance with these specifications must be done in strict compliance with the Americans with Disabilities Act of 1990, the California Title 24 section which implements it, and any regulations issued pursuant thereto.

P. FIRE PROTECTION

- 1. Provide all necessary fire extinguishers as required by local fire regulations.
- 2. Provide sprinkler inspection and test prior to occupancy.
- 3. Provide all other necessary protective devices and equipment as required by local fire regulations.
- 4. Building alarms and fire monitoring equipment shall not be installed in the telephone/data room without written permission of the IT Department.

Q. **ELEVATORS**

1. Provide documentation of inspection and routine maintenance prior to and during occupancy.

R. WATER STATIONS

1. Provide electric water coolers with bottle filling capability and drinking fountains throughout facility at locations to be specified by County. ELKAY EZH20 Bottle Filling Station with Bi-Level Filtered LZ Cooler Models LZSTL8WS & LZSTLDDWS.

SPACE CONDITIONING) (Heating, Ventilation and Air Conditioning)

A. GENERAL REQUIREMENTS

 Space conditioning shall be considered the year-round control of temperature, humidity, air circulation, ventilation and air cleaning to the degree required to assure satisfactory and efficient use of the space for occupants and equipment. Follow good accepted practices as reflected in the latest issue of the American Society of Heating, Refrigeration and Air Conditioning Engineer's Guide (ASHRAE).

B. **VENTILATION**

- 1. Ventilation for air-conditioning system Provide ventilation makeup air in the amount of 10% of total air requirement for cooling or two (2) air changes per hour, whichever is greatest, plus all exhaust air requirements.
- 2. Prior to construction of office space over 5,000 square feet, existing systems over ten (10) years of age shall be inspected by a licensed HVAC company and

a statement of condition detailing the reliability and efficiency of the systems shall be provided.

C. **EXHAUST SYSTEMS**

- 1. Exhaust toilet areas the exhaust fan shall be connected to the light switch or interconnected with the air conditioning time clock.
- 2. Air shall not be directly exhausted, except in the following instances:
 - a. Air used to make up exhaust for toilet rooms.
 - b. Air exhausted specifically for cooking, food preparation or removal of excessive heat generated by vending or various other machines.
 - c. When specified for coffee rooms.

D. SPACE TEMPERATURE CONTROLS

- Central control system for the various areas or provide a thermostat for each heating and/or air-conditioning system. Use separate slide lever adjustments for heating and cooling with lock covers.
- 2. All systems shall be controlled by seven (7) day, twenty-four (24) hour time clocks set to the Economic Development Agency requirements.
- 3. Thermostats controlling space conditions during occupied hours shall be adjustable from sixty eight degrees (68°) to eighty degrees (80°) with the normal set at seventy degrees (70°) for heating and seventy-six degrees (76°) for cooling.
- 4. Simultaneous heating and cooling will not be acceptable.
- 5. Lessor shall comply with existing codes.
- 6. Heat-generated equipment shall be of adequate capacity to heat the building under design conditions.
- 7. All gas furnaces shall be approved by the American Gas Association.
- 8. All electric components shall be UL-approved and comply with the California Electric Code.
- 9. Electric strip heating is not acceptable.

E. AIR FILTERS

- 1. All recirculated and outside air shall pass through filters before entering airhandling units.
- 2. Filters shall be replaceable types and changed a minimum of four (4) times a

year.

3. A location map showing filter locations shall be provided to County.

F. PIPING

- Piping in finished areas, such as lobbies and offices, shall be concealed. No water piping of any description shall be installed near electrical switchgear. Provide shutoff valves at all locations necessary to isolate separate zones of the system served.
- 2. All hot and chilled water piping shall be insulated.

G. AIR DISTRIBUTION

- Ductwork shall be provided, as required, for proper air distribution with supply outlets spaced so as to avoid excessive throws and dead spots. In order to maintain sound privacy, door louvers will not be used to return air from offices. Sound-attenuating, acoustically lined transfer ducts or return air ducts must be used. All supply and return air ductwork shall be constructed and installed in accordance with ASHRAE Standards and shall comply with state and local building codes.
- 2. All air handling units, except unit heaters, must be provided with outside air intakes. Intakes shall be located to avoid the introduction of boiler flue gases or vehicle and condenser unit exhausts.
- 3. Diffusers shall be selected and spaced so that, at the occupied level, the movement of air will be uniform and not be less than ten (10) cubic feet per minute, nor more than fifty (50) cubic feet per minute when measured at four feet (4") above the floor. They shall be selected so that the throw from an air diffuser does not impinge on walls, columns, or the throws from other diffusers based on a terminal velocity of one hundred feet (100') per minute. Diffusers located in offices shall be of the fully adjustable air pattern type.

H. BALANCING AND ADJUSTING

- 1. Space conditioning equipment shall be balanced and adjusted by persons certified to perform such functions prior to occupancy.
- 2. Copy of air balance report shall be provided to the Economic Development Agency.

I. NOISE AND VIBRATION

1. Particular care shall be exercised in the design, selection and installation of all mechanical equipment and components to attain reasonable noise levels in occupied space. In general, sound levels for various spaces shall be maintained in accordance with the recommendations of the ASHRAE Guide.

J. OPERATING INSTRUCTIONS

1. The Lessor shall provide simplified consolidated equipment and control diagrams with specific operating instructions posted on a readily accessible label on each utility system, such as furnaces, refrigeration equipment, air handling systems, and pumping systems. These instructions shall clearly indicate how to stop and start systems, what adjustments must or may be made by County personnel to assure proper operation, and what action shall be taken in emergencies.

(ELECTRICAL)

A. GENERAL REQUIREMENTS

- 1. All electrical work shall be designed and installed in accordance with the plan requirements.
- 2. Codes and ordinances shall conform to standards of the National Electrical Code (NEC), O.S.H.A., serving public telephone company, State Fire Marshal and local ordinances.
- 3. Service equipment shall be located in separate electrical/mechanical room with proper working clearances and grounding. All breakers shall be clearly identified.

B. **INTERIOR LIGHTING**

- 1. Fluorescent lamps shall generally be 34 watt, 430-milli-amp, rapid-start, coolwhite, including energy efficient ballasts.
- 2. The lighting shall be designed to maintain a uniform level of illumination of the minimum foot -candles designated. Lighting levels shall be based on working plan thirty inches (30") above floor, appropriate coefficient of utilization for the fixture and maintenance factor. Conform to Title 24, Division 9 for lighting requirements. Provide not less than ten foot-candles in halls, thirty foot-candles in rest rooms and fifty foot-candles in all other areas, unless specifically noted otherwise. (eighty foot-candles in drafting room areas).
- 3. Each working space, utility or storage room shall have at least one receptacle. Each office shall have a minimum of one (1) receptacle on each twelve feet (12') of wall space. See plans for additional and/or special outlets.
- 4. Provide twenty-four (24) hour lighting for security.
- 5. Emergency lighting Shall be provided where required by applicable codes, or natural lighting will not provide sufficient lumens for emergency exiting of building.

C. **EXTERIOR LIGHTING**

1. Install sufficient lighting to provide a minimum of five (5) foot-candles of

- illumination at each building entrance, around the perimeter of the building, in the parking and maneuvering areas and on driveways.
- 2. All exterior lighting shall be high or low-pressure sodium as specified by the County. Fixtures shall be controlled by photocell, time clocks, or combinations of both.

(TELEPHONE AND COMMUNICATIONS)

(Updated November 10, 2008)

A. GENERAL REQUIREMENTS

- 1. All communications requirements shall conform to the standards of Riverside County Information Technology (RCIT) and the serving public telephone company as noted below.
- 2. The RIVERSIDE COUNTY INFORMATION TECHNOLOGY (RCIT) COMMUNICATIONS BUREAU TELECOMMUNICATIONS ENGINEER shall be consulted during the Programming, Conceptual Design, Design Development, and Construction Design stages to plan the design and provide input for the Telecommunications Infrastructure.

B. TELECOMMUNICATIONS ROOM SPECIFICATIONS

- 1. Dedicated Use: Telecommunications Rooms must be dedicated to the telecommunications function and related support facilities. Equipment not related to the support of the Telecommunications Room, such as piping, duct work, and distribution of building power, must not be located in, or pass through the room. The Telecommunications Room may not be shared with building or custodial services. Cleaning materials such as mops, buckets or solvents must not be located or stored in the Telecommunications Room. Building alarms, fire monitoring equipment and building automation equipment shall not be installed in the Telecommunications Room without written permission of the RCIT Communications Bureau Telecommunications Engineer. In the event the RCIT Communications Bureau Telecommunications Engineer grants such permission, all building alarms and fire-monitoring equipment shall be installed only in the location designated.
- 2. Room Physical Specifications the room must be completed a minimum of thirty (30) days prior to occupancy. Large projects (more than 20,000 sq. ft.) will require the Telecommunications Room (s) to be completed a minimum of 45 days or as directed by RCIT Communications Bureau Telecommunications Engineer prior to beneficial occupancy. All specifications for said room as outlined in this agreement shall be completed, including, but not limited to, installation of plywood, lighting, electrical circuits, HVAC, ceiling tiles, ground, floor tile and door with lock and three (3) sets of keys.

It should be understood that the contractor will have to schedule various

trades in sooner than the normal construction schedule to complete the Telecommunications Room (HVAC, Electrician, Painter, etc.) as required by the RCIT Communications Bureau Telecommunications Engineer.

- a. Location: The Telecommunications Room shall be as close to the geographic center of the occupied space as possible. distance from the center of the Telecommunications Room to the farthest WAO location shall not exceed a radius of 175 feet unless reviewed by RCIT Communications Bureau Telecommunications Engineer. If occupying more than one floor of a building, a separate Telecommunications Room shall be required on each floor, preferably stacked above one another. Provisions shall be made available for easy access into the Telecommunications Room for telephone and data wiring and shall be dedicated for telephone and data use only. Telecommunications Rooms should not be planned next to elevators, restrooms, electrical rooms, air shafts, mechanical rooms, and outside walls. If occupying more than one building, each building will require Telecommunications Rooms that meet the above requirements.
- b. **Minimum Room Sizes:** The Telecommunications Room shall be rectangular in shape and conform to the following inside room dimensions:

<u>Leased Premises – sq. ft.</u>	Room Size
5,000 sq. ft. or less	12' x 9'
5,000 - 10,000 sq. ft.	12' x 12'
10,000 - 30,000 sq. ft.*	12' x 14'
30,000 sq. ft. or larger**	12' x 14'

^{*} May require more than one room

- c. Plywood Wall Lining: All walls will be lined with AC grade or better, void-free, 4'x8' sheets of ¾" plywood. Plywood sheets shall be mounted vertically from ceiling height towards floor. Plywood must be painted on all sides with one coat of primer and two coats of white fire resistant paint. The plywood should be installed with the grade "C" surface facing the wall.
- d. **Doors:** The door will be a minimum of three (3) feet wide and 80 inches tall and be located as near as possible to a room corner. The door shall be equipped with a lock. Where practical, the door should open outward to provide additional usable space.
- e. Air Conditioning: The environmental control systems for the Telecommunications Room should be able to maintain a room temperature between 18°C and 24°C (64°F and 75°F) at all times (24 hours per day, 365 days per year). All building supplied HCAC inlets to the Telecommunications Room shall be controlled using a Variable Air Valve (VAV) with its own thermostat to prohibit heating the

^{**} Will require more than one room.

Telecommunications Room. The VAV will be installed in such a fashion to introduce conditioned air if the primary spilt A/C unit fails to cool the room. It will serve two purposes:

- 1. Provide ventilation air to the room, cooling only.
- 2. Serve as an additional backup.

If a building's HVAC system cannot ensure continuous operation (including weekends and holidays), provide a standalone HVAC unit with independent controls for the Telecommunications Room. emergency power source is available in the building, connect the HVAC system that serves the Telecommunications Room to the emergency power source. Sensors and controls must be located in the Telecommunications Room, ideally placed 5 feet AFF (thermostat location will be specified on the Telecommunications Room drawing provided by RCIT Communications Bureau Telecommunications Engineer). If an in-room air conditioner is installed, the air conditioner will be hard wired to the thermostat and the location must be approved by RCIT Communications Bureau Telecommunications Engineer before installation. If remote-monitoring equipment is available, this room should have its own independent sensor. Average heat load for equipment is approximately 150 BTU/SQ Ft of Telecommunications Room space (specific heat load will be provided for each room).

- f. If **fire sprinklers** are located in the Telecommunications Room, the sprinkler shall have a high temperature standard response full circle head with a heavy-duty cover. Sprinkler lines located inside the TR shall not be "charged" under normal conditions. Coordinate placement of the sprinklers with RCIT Communications Bureau Telecommunications Engineer. Sprinkler heads must be a minimum of 10 ft. AFF.
- g. Room Lighting Lighting to provide a minimum of 500 lux (50 foot candles) measured 3 ft. AFF. Coordinate placement of light fixtures with RCIT Communications Bureau Telecommunications Engineer to avoid interference with low voltage equipment. Light fixtures must be a minimum of 10 ft. AFF. Use white paint on the walls and ceiling to enhance room lighting. Power for the lighting should not come from the power panel located inside the Telecommunications Room.
- h. **Emergency Lighting** Emergency lighting within the Telecommunication Room shall be provided to ensure that the loss of power to normal lights will not hamper an emergency exit from the room.
- i. Floors: The floor shall be capable of supporting a minimum load bearing of one hundred (100) pounds per square foot and maximum concentration loading of 2,000 lbs. per foot. Standard VCT floor covering shall be installed unless otherwise specified.
- j. Ceiling: If a ceiling will be installed in the Telecommunications Room it must be installed at a minimum of 10' AFF. Ceiling protrusions (e.g.

sprinkler heads) must be placed to assure a minimum clear height of 10 feet that is clear of obstructions, to provide space over the equipment frames for cables and suspended cable trays. Ceiling finish must minimize dust and be light colored to enhance the room lighting. A hard ceiling shall not be allowed in the Telecommunications Room.

C. ELECTRICAL REQUIREMENTS

- a. Dedicated Power Feeder The Telecommunications Room will have its own dedicated power feeder terminated in an electrical panel located inside the room and flush mounted in the wall. Location of this electrical sub-panel shall be closely coordinated with RCIT Communications Bureau Telecommunications Engineer to ensure it does not impact the overall design and use of the space within the room. Power required for other equipment in the room (e.g. fluorescent lighting, motors, air conditioning equipment) should be supplied by a separate feeder, conduit, and distribution panel. If an emergency power source is available, connect the Telecommunications Room electrical sub-panel into it.
- b. **General Purpose Outlets:** Provide 110 Volt, 20 Amp duplex outlets installed at standard height on all walls of the Telecommunications Room; maximum spacing between outlets shall not exceed 12 feet.
- c. **Telephone System:** Install one (1) dedicated 208 VAC, 20 Amp circuits terminated into a single surface mounted 4S electrical box with a NEMA L6-20 outlet at a height of 18 inches AFF from center. The circuit will have its own separate hot, neutral, and ground wire all the way back to the power distribution panel. The circuit will be clearly labeled on the cover plate and sub-panel.
- d. **Equipment Racks:** Install two (2) dedicated 20 Amp, 110 VAC circuit with isolated ground for each equipment rack (9' x 12' room 2 racks, 12' x 12' room 3 racks, 12' x 14' room 4 racks). Install one (1) dedicated 30 Amp, 208 VAC circuit with isolated ground for every two equipment racks. The breaker number shall be identified on each of these outlets. Terminate each circuit on double duplex outlets in a surface mounted 4S box in the vertical cable manager 23" above the floor. Equipment Rack locations, circuit locations and quantity will be specified in the room layout provided by the RCIT Communications Bureau Telecommunications Engineer.
- e. Paging A/V: If required, install one dedicated 20 Amp, 110 VAC circuit with isolated ground. Terminate on a double duplex outlet in a 4S box. The location of the outlet will be specified in the Telecommunications Room layout provided by the RCIT Communications Bureau Telecommunications Engineer.
- f. Security: Install one dedicated 20 Amp, 110 VAC circuit with isolated ground. Terminate on double duplex outlets in a 4S box. The location of

the outlet(s) will be specified in the Telecommunications Room layout provided by the RCIT Communications Bureau Telecommunications Engineer.

- g. Emergency Air Conditioner Outlet (To Support IT Telephone System): Install one dedicated 208/220 VAC, 20 Amp circuit terminated on a single NEMA 6-20 receptacle. The location of the outlet will be specified in the Telecommunications Room layout provided by the RCIT Communications Bureau Telecommunications Engineer.
- h. Grounding – A Telecommunications Main Grounding Busbar (TMGB) shall be installed in the Telecommunications Room at the location specified in the room layout that will be provided by the RCIT Communications Bureau Telecommunications Engineer. The Grounding Busbar must be CPI Chatsworth Products, part #13622-020. The Busbar shall be insulated from its supporting structure by at least two inches of separation. Bond the Busbar to the building AC grounding electrode system. The minimum size of the bonding conductor should be #3 AWG and be sized to carry the maximum short time rating Amps of the building grounding electrode conductor. A supplemental bonding connection is required to be Exothermically Welded to the structural steel of the building and local AC sub-panel located inside the Telecommunications Room. Resistance should be no more than .1 ohms between the TMGB and the building main grounding source measured following the two-point bonding test method using an earth ground resistance tester. All grounding conductors shall be run in rigid conduit.

D. CONDUIT REQUIREMENTS

- 1. Work Area Outlets (WAO):
 - a. **General Specifications:** Each WAO shall consist of one 4 in. by 4 in. by 2.5 in. deep outlet box with a 2 in. by 4 in. reducing adapter installed.
 - b. **Height Requirements:** Each WAO shall be installed at the same height as the adjacent electrical outlet. The height of jacks for wall telephones shall conform to any ADA rules pertaining to handicapped use. This height is typically 44 inches AFF to the center of the outlet box.
 - c. Conduits Specifications:
 - (1) Accessible Ceilings: When there is an accessible ceiling such as suspended acoustical tile, provide a rigid trade size 1 conduit (flex not allowed) stubbed into the ceiling space from the outlet box. Ceiling must be accessible from the WAO location back to the Telecommunications Room. If a WAO location is at wall phone height (+44"), install an additional outlet box at standard floor height. Connect a rigid 1-inch conduit from the bottom of the wall height box to the top of the standard floor height box. Ream all conduit ends and fit with insulated bushings.

- Non-Accessible Ceilings: When the ceiling is not accessible, provide a rigid 1½-inch conduit (flex not allowed) run from the WAO location all the way to the Telecommunications Room or to the nearest accessible ceiling space. Runs cannot have more than the equivalent of two 90-degree bends without installing a pull box (pull box must be accessible upon completion of construction). All conduits will have a pull string installed. Where multiple outlets are installed, each location will have its own dedicated conduit run; no daisy chaining is allowed.
- 2. System Furniture Wall In-feeds: Wall in-feeds will be one rigid 1.25 in. conduit per 3 WAO locations of systems furniture. The conduit shall be stubbed into the ceiling area from a 4 in. by 4 in. by 2.5 in. deep outlet box. Ream all conduit ends and fit with insulated bushings. In-feed location will be accessible either by cutout or access panel in furniture or placed next to furniture where location will be accessible for service. Consult RCIT Communications Bureau Telecommunications Engineer for location, quantity, and size of in-feeds. Exact location will be verified with furniture vendor.
- 3. System Furniture Floor Poke-Thru In-feeds: Poke-Thru locations requiring power/voice/data will require Wiremold P/N RC9FFTC Poke-Thru's with EMT 1.25 in. conduit per 3 WAO locations of systems furniture. Color to be specified by Architect. The conduit shall be continuous and stubbed into the ceiling area of that floor being serviced with pull string installed. No more than two 90's will be allowed, J-Box for furniture supplier power whip connections to be anchored to the ceiling of the floor below with unistrut. J-Box must be with-in 6' of furniture whip connection. Ream all conduit ends and fit with insulated bushings. Consult RCIT Communications Bureau Telecommunications Engineer for location, and quantity. Exact location will be verified with furniture vendor.
- 4. System Furniture Power and Data Floor Boxes: Floor Box locations requiring power/voice/data will require Wiremold P/N RFB4-C1-1 Floor Box with EMT 1.25 in conduit per 3 WAO locations of systems furniture for communications. Color to be specified by Architect. The conduit shall be continuous and stubbed into the ceiling area of that floor being serviced with pull string installed. No more than two 90's will be allowed. All boxes shall be configured for dual service which will require accessory items for separation of power and data. All boxes shall include (1) internal duplex receptacle for power, (1) Wiremold P/N RFB-2-SSRT for communications and (1) flanged cover P/N S28BBTCAL. Ream all conduit ends and fit with insulated bushings. Consult RCIT Communications Bureau Telecommunications Engineer for location, and quantity. Exact location will be verified with furniture vendor.
- 5. Hard Wall Office Floor Poke-Thru: Poke-Thru locations requiring power/voice/data will require Wiremold P/N RC4ATC Poke-Thru's with the optional Communications Adapter P/N Com75 installed for Voice and Data conduits. Install two (2) EMT 0.75 in. conduits per location. The conduits shall be continuous and stubbed into the ceiling area of that floor being serviced with pull sting installed. No more than two 90's will be allowed. Ream all conduit

ends and fit with insulated bushings. Consult RCIT Communications Bureau Telecommunications Engineer for location, quantity, and size of in-feeds. Exact location will be verified with furniture vendor.

6. Hard Wall Power and Data Floor Boxes: Floor Box locations required power/voice data will require Wiremold P/N RFB4-C1-1 Floor Box with (1) EMT 1.25 in. conduit for communications. Color to be specified by Architect. The conduit shall be continuous and stubbed into the ceiling area of that floor being serviced with pull string installed. No more than two 90's will be allowed. All boxes shall be configured for dual service which will require accessory items for separation of power and data. All boxes shall include (1) internal duplex receptacle for power, (1) Wiremold P/N RFB-2-SSRT for communications and (1) flanged cover P/N S38BBTCAL. Ream all conduits ends and fit with insulated bushings. Consult RCIT Communications Bureau Telecommunications Engineer for location, and quantity. Exact location will be verified with furniture vendor.

7. Backbone Pathways:

- a. Telecommunications Rooms On the Same Floor: When two or more Telecommunications Rooms exist on the same floor, provide two (2) rigid metallic trade size 4 conduits between the main Telecommunications Room and each secondary Telecommunications Room. Conduits are to be run in the most direct route possible with no more than the equivalent of two 90-degree sweeps without a pull box. The minimum size of a pull box shall be 24" W x 36" L x 12" D. Ream all conduit ends and fit with insulated bushings. Conduits are to be bonded to ground in accordance with all local and national requirements. Location of conduits will be identified on drawings provided by the RCIT Communications Bureau Telecommunications Engineer and provided on a site-by-site basis. The bend radius of the conduit shall be 10 times the outside conduit diameter. Install a pull string with minimum tensile strength of 30 lbs in each conduit.
- b. Telecommunications Rooms On Different Floors: When two or more Telecommunications Rooms exist on different floors, provide a minimum of two (2) rigid trade size 4 conduits between the main Telecommunications Room and each secondary Telecommunications Room. Conduits are to be run in the most direct route possible with no more than the equivalent of two 90-degree bends without a pull box. The minimum size of a pull box shall be 24" W x 36" L x 12" D. Ream all conduit ends and fit with insulated bushings. Conduits are to be bonded to ground in accordance with all local and national requirements. The bend radius of the conduit shall be 10 times the outside conduit diameter. Install a pull string with minimum tensile strength of 30 lbs in each conduit. In multi-level buildings with stacked Telecommunications Rooms, sleeves shall be provided from the ceiling of the lowest level to the floor of the top level. Size, quantity, and location will be provided by the RCIT Communications Bureau Telecommunications Engineer.
- c. MPOE: If the MPOE (minimum point of entry) is not physically located in

the Telecommunications Room it shall be necessary to install two (2) trade size 4 conduits from the MPOE to the Telecommunications Room. Conduits are to be run in the most direct route possible with no more than the equivalent of two 90-degree bends without a pull box. The minimum size of a pull box shall be 24" W x 36" L x 12" D. Ream all conduit ends and fit with insulated bushings. Conduits are to be bonded to ground in accordance with all local and national requirements. Location of conduits will be identified on drawings provided by the RCIT Communications Bureau Telecommunications Engineer and provided on a site-by-site basis. The bend radius of the conduit shall be 10 times the outside conduit diameter. Install a pull string with minimum tensile strength of 30 lbs in each conduit.

- d. Telecommunications Rooms in Multiple Buildings on Same or Adjacent Properties: The number of conduits will be determined by the size and scope of each project. The items listed below are BASIC requirements only as the scope of the project increases, some or all of the items listed below may undergo major changes:
 - (1) Conduits shall be rigid and shall be four (4) trade size 4. A minimum of two (2) conduits will be installed from the primary Telecommunications Room and each building as defined by the RCIT Communications Bureau Telecommunications Engineer. Conduits shall be installed in the most direct route possible.
 - (2) Conduits shall be buried a minimum of 36 inches below finish grade.
 - (3) Conduits shall be encased in 2,000 PSI concrete where vehicle traffic occurs and encased in slurry everywhere else for the entire length.
 - (4) Tracer tape shall be installed the entire conduit length. Tracer tape shall be 12 inches wide, flat, and metallic and shall be installed 12 inches above concrete encasement. Tape shall be imprinted with the words "WARNING FIBER OPTIC CABLE" spaced at a minimum of 24 inches on center.
 - (5) No more than the equivalent of two (2) 90-degree bends shall be installed without the addition of a pull box, vault, or maintenance hole, which size and requirements will be defined by the RCIT Communications Bureau Telecommunications Engineer.
 - (6) Conduit runs in excess of 500 feet shall have a pull box, vault, or maintenance hole installed, which size and requirements will be defined by the RCIT Communications Bureau Telecommunications Engineer. All sweeps shall have a minimum bending-radius of 10 times the diameter of the conduit.
 - (7) All four inch conduits should have a minimum 1/4-inch nylon pull

rope. All four inch conduits over 400 feet should have a minimum 3/8-inch nylon pull rope. The size and requirements of pull boxes, vaults, or maintenance holes can only be determined by the scope of the project and will be defined by the RCIT Communications Bureau Telecommunications Engineer.

- 8. **Firewalls:** If any firewalls are present, conduit/sleeve access through the wall must be provided by the contractor. The ends of any conduit/sleeve penetrating a firewall will be sealed with the appropriate fire stop. Identification of the areas that must be sealed shall be identified by the contractor at the time of wiring. Size and location of the sleeves will be determined by the RCIT Communications Bureau Telecommunications Engineer. Sleeves should penetrate the wall a minimum of 3 inches. Ream each end of conduit and fit with insulated bushing.
- 9. Primary Service Conduit Requirements (New Construction):
 - a. The number of all primary service conduits will be determined by the size and scope of each project. The items listed below are BASIC requirements only and as the scope of the job increases, some or all of the items listed below may undergo major changes:
 - (1) Entrance conduits shall be rigid and shall be four (4) trade size 4.
 A minimum of two (2) conduits will be installed into the Telecommunications Room. Conduits shall be installed in the most direct route possible.
 - (2) Conduits shall be buried a minimum of 36 inches below finish grade.
 - (3) Conduits shall be encased in slurry for sections indentified by RCIT Communications Bureau Telecommunications Engineer as no traffic or low risk.
 - (4) Conduits shall be encased in 2,000 PSI concrete for sections not identified in section 5a3.
 - (5) Tracer tape shall be installed the entire conduit length. Tracer tape shall be 12 inches wide, flat, and metallic and shall be installed 12 inches above concrete encasement. Tape shall be imprinted with the words "WARNING FIBER OPTIC CABLE" spaced at a minimum of 24 inches on center.
 - (6) No more than the equivalent of two (2) 90-degree sweeps shall be installed without the addition of a pull box, vault, or maintenance hole, which size and requirements will be defined by the RCIT Communications Bureau Telecommunications Engineer.
 - (7) Conduit runs in excess of 500 feet shall have a pull box, vault, or maintenance hole installed, which size and requirements will be defined by the RCIT Communications Bureau

Telecommunications Engineer. All bends shall have a minimumbending radius of 10 times the diameter of the conduit.

(8) All four-inch conduits should have a minimum ¼-inch nylon pull rope. All four-inch conduits over 400 feet should have a minimum 3/8-inch nylon pull rope. The size and requirements of pull boxes, vaults, or maintenance holes can only be determined by the scope of the project and will be defined by the RCIT Communications Bureau Telecommunications Engineer.

E. CABLE TRAYS:

1. If the structural ceiling height is greater than 16' AFF or the occupied space is greater than 25,000 square feet, a cable tray system will be required to support the voice and data wiring. Consult with the RCIT Communications Bureau Telecommunications Engineer requirements to assist in the design of the cable tray system. A structural Engineer will be required to design the cable tray system to code and manufacturer specification and submit design to the RCIT Communications Bureau Telecommunications Engineer for approval.

RCIT System's Furniture Telecommunications Standards June 16, 2004

1. Work Area Outlets

- 1.1. **Definition:** Work Area Outlet (WAO) consists of a telecommunications faceplate and its component (s) what telephones and PC's are plugged into at a user's desk location or work area.
- 1.2. Furniture communications outlet openings shall accommodate the installation of an industry-standard, single gang faceplate, with a minimum opening of 2 inches by 3 inches.
 - 1.2.1. Two (2) factor or field-installed threaded openings shall be provided for single gang faceplate mounting and shall accommodate a 10x22 screw.
- 1.3 Furniture communications outlet openings shall provide a minimum mounting depth of 44.5 mm (1.75 in).
- 1.4. Extender plates shall be provided for WAO's (Work Area Outlet's) within furniture system one for each workstation space, fax location, and printer location.
 - 1.4.1. Extender plates shall be a minimum 7/8 inch deep.

2. Cabling Pathways

- 2.1. Furniture pathways shall have capacity for a minimum of (12) communications cables with an outside diameter of .25 inches and not exceed 40% of pathway capacity.
 - 2.1.1. Remaining pathway capacity will be utilized to accommodate future moves, adds, and changes (MAC's).
 - 2.1.2. This requirement applies to ALL areas of the furniture pathway INCLUDING corners, panel to panel pathways, etc.
 - 2.1.3. Consideration will include space used in furniture for connecting hardware.
- 2.2. Furniture system shall completely conceal all communications cabling in all cabling pathways.
- 2.3. Entire communications cabling pathway shall contain a continuous and rigid support infrastructure within each panel.
- 2.4. When communications cabling pathways run parallel to electrical pathways:
 - 2.4.1. A metallic barrier shall be provided (i.e. metallic divider, conduit, corrugated or solid) and shall be bonded to ground.
 - 2.4.2. Electrical components shall not impede on communications cabling pathways so as to restrict in any way the fill requirements noted above.
- 2.5. The minimum size pathway shall not force the cable bend radius to be less than 25 mm (1 in) under conditions of maximum cable fill.
- 2.6. Metallic pathway edges shall utilize protective bushings.
- 2.7. All panels shall be equipped with at least one (1) of the following raceways and shall singularly conform to all of the above noted cabling pathway requirements:
 - 2.7.1. Base Raceway
 - 2.7.2. Top Raceway

3. Furniture In-Feeds

- 3.1. Furniture in-feeds shall have capacity for a minimum of (12) communications cables with an outside diameter of .25 inches and not exceed 40% of pathway capacity.
 - 3.1.1. Remaining pathway capacity will be utilized to accommodate

future moves, adds, and changes (MAC's).

- 3.1.2. Consideration will include space used in furniture for connecting hardware.
- 3.2. Furniture in-feeds shall have the ability to provide for separate entry points for power and communications cabling.
 - 3.2.1. Where entry points are closer than 6 inches, a physical / mechanical barrier shall be provided to separate cabling entry points.
- 3.3. Metallic in-feed edges shall utilize protective bushings.
- 3.4. One furniture in-feed shall be provided for every four (4) WAO's (Work Area Outlets).
- 3.5. Placement of furniture in-feeds shall be coordinated and verified by County IT.

EXHIBIT G ESTOPPEL CERTIFICATE 7888 MISSION GROVE PKWY, RIVERSIDE

ESTOPPEL CERTIFICATE

- 1. The County of Riverside, as Tenant, or County, and XXX, as lessor (the "Lessor"), entered into a written Lease dated XXX in which Lessor leased to County and County leased from Lessor that certain Premises consisting of approximately XXX square feet of office space located at XXX, California. The lease, as amended is referred to in this Certificate as the Lease.
- 2. The Lease has not been amended, modified, nor supplemented.
- 3. The next payment of Rent is due on the first of each month after the planning and construction of the project is completed pursuant to Exhibit "B," sections 5.2 and 6.1, and County receives Certificate of Occupancy. The rent is \$XXX. County has not paid Lessor a security deposit.
- 4. Under the Lease, the effective date was XXX, and the expiration date of the Lease is xxx (xx) years after the Commencement Date (as defined in the Lease) subject to an automatic xxx (xx) year extension for a total of xxx (xx) years if County fails to exercise its Option to Purchase (as defined in the Lease).
- 5. The Lease provides for XXX option(s) to extend the term of the Lease. The extension Options(s) shall be exercised by County delivering to Lessor written notice thereof no later than xxx (xx) days prior to the expiration of the Original Term or any extension thereof. The rent payable by County during any extended term shall be 2.75% greater than the original term rent or option period.
- 6. The County has the right of first refusal to renew the Lease, after the original term and any options to extend have expired, on the same terms and conditions received by Lessor as a bona fide offer from a third party to Lease the Premises.
- 7. There are no oral or written amendments, modifications, or supplements to the Lease except as previously stated in this Certificate. A true, correct, and complete copy of the Lease, including all amendments, is attached to this Certificate. The Lease is in full force and effect and represents the entire agreement between Lessor and the County pertaining to the Premises.
- 8. To the best of the County's knowledge, Lessor and County are not in default in the performance of any of the terms and provisions of the Lease, and no event or condition has occurred that, with the giving of notice or passage of time, or both, would constitute such default by Lessor or County.
- 9. To the best of the County's knowledge, the Lessor has not assigned, transferred, or hypothecated the real property or any interest in the real property.
- 10. The County has not assigned, transferred, or hypothecated the Lease or any interest in the Lease or subleased all or part of the Premises.

- 11. There are no setoffs or credits against Rent payable under the Lease. No free periods or rental abatements, rebates, or concessions have been granted to County.
- 12. To the best knowledge of the County, there are no pending actions, voluntary or involuntary, under any bankruptcy or insolvency laws of the United States or any state against County that affect the leased Premises.
- 13. The execution of this Certificate by Lessor and the County does not amend the Lease or waive any of Lessor's or County's rights under the Lease.
- 14. This Certificate is given to XXX, (the "Lender") and the Lessor with the understanding that as a lender or purchaser of the above described real property or assignee of either Lessor or Lender may rely on it in connection with either the assignment or acquisition of the above described real property or making a loan secured by the above described real property. Following that acquisition, assignment by Lessor or loan, County intends to keep the Lease full force and effect and shall bind and inure to the benefit of Lessor and its successor in interest.

By:
Robert Field Assistant County Executive Officer/ED.
The state of the s
APPROVED AS TO FORM:
Gregory P. Priamos, County Counsel
Ву:
Deputy County Counsel

COUNTY:

EXHIBIT H

SUBORDINATION, NON-DISTURBANCE & ATTORNMENT AGREEMENT 7888 MISSION GROVE PKWY, RIVERSIDE

RECORDED AT REQUEST OF AND WHEN RECORDED RETURN TO:
Attention:
SUBORDINATION, NON-DISTURBANCE, AND ATTORNMENT AGREEMENT
This Subordination, Non-disturbance, and Attornment Agreement ("Agreement") is made
as of between
Recitals:
A. Lender has agreed to make a loan to
B. On,, County and Lessor entered into a lease for the Mortgage Premises (the Lease). The Lease creates a leasehold estate in favor of County for space (the "Premises") located on the Mortgage Premises.
C. In connection with execution of the Mortgage, Lessor also executed and delivered to Lender an Assignment of Leases, Rents and Profits dated, and recorded on, as Instrument No, in the Official Records of the County Recorder of, California concerning all rents, issues and profits from the Mortgage Premises. This document, together with all amendments, renewals, modifications consolidations, replacements, substitutions and extensions, is hereafter referred to as the "Assignment of Rents."
To confirm their understanding concerning the legal effect of the Mortgage and the Lease, in consideration of the mutual covenants and agreements contained in this Agreement and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

Lender and County, intending to be legally bound, agree and covenant as follows:

1. Representations and Warranties. County warrants and represents that the Lease is in full force and effect and that, as of the date of this Agreement and to the best of County's knowledge, there is no default under the Lease by Lessor or County.

2. County Subordination.

- 2.1. Subject to the provisions of Section 3, the Loan Documents shall constitute a lien or charge on the Mortgage Premises that is prior and superior to the Lease, to the leasehold estate created by it, and to all rights and privileges of County under it; by this Agreement, the Lease, the leasehold estate created by it, together with all rights and privileges of County under it, is subordinated, at all times, to the lien or charge of the Loan Documents in favor of Lender.
- 2.2. By executing this Agreement, County subordinates the Lease and County's interest under it to the lien right and security title, and terms of the Loan Documents, and to all advances or payments made, or to be made, under any Loan Document.

3. Non-disturbance.

- 3.1. Lender consents to the Lease.
- 3.2. Despite County's subordination under Section 2, County's peaceful and quiet possession of the Premises shall not be disturbed and County's rights and privileges under the Lease, including its right to early termination, its right to extend the term of the Lease, its right of first refusal to lease the property after expiration of the original term and any extensions thereof, shall not be diminished by Lender's exercise of its rights or remedies under the Loan Documents, provided that County has not canceled or terminated the Lease, nor surrendered, or abandoned the Premises.
- 3.3. If (a) Lender shall acquire title to, and possession of, the Premises on foreclosure in an action in which Lender shall have been required to name County as a party defendant, and (b) County is not in default under the Lease beyond any applicable cure or grace periods, has not canceled or terminated the Lease, nor surrendered, vacated or abandoned the Premises and remains in actual possession of the Premises at the time Lender shall so acquire title to, and possession of, the Premises, Lender and County shall enter into a new lease on the same terms and conditions as were contained in the Lease, except that:
- (a) The obligations and liabilities of Lender under a new lease shall be subject to the terms and conditions of this Agreement (including the provisions of Sections 5-7);
- (b) Lender shall have no obligations or liabilities to County under any such new lease beyond those of Lessor as were contained in the Lease; and
- (c) The expiration date of any new lease shall coincide with the original expiration date of the Lease.
- 3.4. County shall not be named or joined in any foreclosure, trustee's sale, or other proceeding to enforce the Loan Documents unless such joinder shall be legally required to

perfect the foreclosure, trustee's sale, or other proceeding.

4. Attornment.

- 4.1. If Lender shall succeed to Lessor's interest in the Mortgage Premises by foreclosure of the Mortgage, by deed in lieu of foreclosure, or in any other manner, County shall be bound to Lender under all the terms, covenants and conditions of the Lease for the balance of its term with the same force and effect as if Lender were the Lessor under the Lease. County shall be deemed to have full and complete attornment to, and to have established direct privity between County and:
 - (a) Lender when in possession of the Mortgage Premises;
 - (b) a receiver appointed in any action or proceeding to foreclose the Mortgage;
 - (c) any party acquiring title to the Mortgage Premises; or
 - (d) any successor to Lessor.
- 4.2. County's attornment is self-operating, and it shall continue to be effective without execution of any further instrument by any of the parties to this Agreement or the Lease. Lender agrees to give County written notice if Lender has succeeded to the interest of the Leaser under the Lease. The terms of the Lease are incorporated into this Agreement by reference.
- 4.3. If the interests of Lessor under the Lease are transferred by foreclosure of the Mortgage, deed in lieu of foreclosure, or otherwise, to a party other than Lender (Transferee), in consideration of, and as condition precedent to, County's agreement to attorn to any such Transferee, Transferee shall be deemed to have assumed all terms, covenants, and conditions of the Lease to be observed or performed by Lessor from the date on which the Transferee succeeds to Lessor's interests under the Lease.
- 5. Lender as Lessor. If Lender shall succeed to the interest of Lessor under the Lease, Lender shall be bound to County under all the terms, covenants and conditions of the Lease, and County shall, from the date of Lender's succession to the Lessor's interest under the Lease, have the same remedies against Lender for breach of the Lease that County would have had under the Lease against Lessor; provided, however, that despite anything to the contrary in this Agreement or the Lease, Lender, as successor to the Lessor's interest, shall be:
- (a) liable for any act or omission of the Lessor; provided that the Lender may elect either to perform the pre-existing obligation or to permit the County to perform it and to recover the cost out of Rent:
- (b) subject to any offsets or defenses expressly permitted under the Lease, including abatement rights which County might have had against Lessor;
- (c) bound by any rent or additional rent that County might have paid for more than one month in advance to Lessor; or
 - (d) bound by an amendment or modification of the Lease even though

made without Lender's written consent and whether or not the amendment or modification materially adversely affect any right of Lessor under the Lease.

- (e) subject to the County 's right to assert continuing claims, such as material interference with the County's use and enjoyment of the premises, against the Lender.
- 6. **Right To Cure**. County agrees that, before County exercises any of its rights or remedies under the Lease, Lender shall have the right, but not the obligation, to cure the default within the same time given Lessor in the lease to cure the default, plus an additional thirty (30) days or ten (10) days in the case of defaults in the payment of money from Lessor to County. County agrees that the cure period shall be extended by the time necessary for Lender to commence foreclosure proceedings and to obtain possession of the Mortgage Premises, provided that:
 - (a) Lender shall notify County of Lender's intent to effect its remedy;
- (b) Lender initiates immediate steps to foreclose on or to recover possession of the Mortgage Premises;
- (c) Lender initiates immediate legal proceedings to appoint a receiver for the Mortgage Premises or to foreclose on or recover possession of the Mortgage Premises within the thirty (30) day period; and
- (d) Lender prosecutes such proceedings and remedies with due diligence and continuity to completion.
- 7. Assignment of Rents. If Lessor defaults in its performance of the terms of the Loan Documents, County agrees to recognize the Assignment of Rents made by Lessor to Lender and shall pay to Lender, as assignee, from the time Lender gives County notice that Lessor is in default under the terms of the Loan Documents, the rents under the Lease, but only those rents that are due or that become due under the terms of the Lease after notice by Lender. Payments of rents to Lender by County under the assignment of rents and Lessor's default shall continue until the first of the following occurs:
 - (a) No further rent is due or payable under the Lease;
- (b) Lender gives County notice that the Lessor's default under the Loan Documents has been cured and instructs County that the rents shall thereafter be payable to Lessor:
- (c) The lien of the Mortgage has been foreclosed and the purchaser at the foreclosure sale (whether Lender or a Transferee) gives County notice of the foreclosure sale. On giving notice, the purchaser shall succeed to Lessor's interests under the Lease, after which time the rents and other benefits due Lessor under the Lease shall be payable to the purchaser as the owner of the Mortgage Premises.
- 8. **County's Reliance**. When complying with the provisions of Section 7, County shall be entitled to rely on the notices given by Lender under Section 7, and Lessor agrees to release, relieve, and protect County from and against any and all loss, claim, damage, or liability (including reasonable attorney's fees) arising out of County's compliance with such notice.

County shall be entitled to full credit under the Lease for any rents paid to Lender in accordance with Section 7 to the same extent as if such rents were paid directly to Lessor. Any dispute between Lender (or Lender's Transferee) and Lessor as to the existence of a default by Lessor under the terms of the Mortgage, the extent or nature of such default, or Lender's right to foreclosure of the Mortgage, shall be dealt with and adjusted solely between Lender (or Transferee) and Lessor, and County shall not be made a party to any such dispute (unless required by law).

- 9. **Lender's Status**. Nothing in this Agreement shall be construed to be an agreement by Lender to perform any covenant of the Lessor under the Lease unless and until it obtains title to the Mortgage Premises by power of sale, judicial foreclosure, or deed in lieu of foreclosure, or obtains possession of the Mortgage Premises under the terms of the Loan Documents.
- 10. Cancellation of Lease. County agrees that it will not cancel, terminate, or surrender the Lease, except at the normal expiration of the Lease term or as provided in the Lease.
- 11. **Special Covenants**. Despite anything in this Agreement or the Lease to the contrary, if Lender acquires title to the Mortgage Premises, County agrees that: Lender shall have the right at any time in connection with the sale or other transfer of the Mortgage Premises to assign the Lease or Lender's rights under it to any person or entity, and that Lender, its officers, directors, shareholders, agents, and employees shall be released from any further liability under the Lease arising after the date of such transfer, provided that the assignee of Lender's interest assumes Lender's obligations under the Lease, in writing, from the date of such transfer.
- 12. **Transferee's Liability (Non Recourse)**. If a Transferee acquires title to the Mortgage Premises:
- (a) County's recourse against Transferee for default under the Lease shall be limited to the Mortgage Premises or any sale, insurance, or condemnation proceeds from the Mortgage Premises:
- (b) County shall look exclusively to Transferee's interests described in (a) above for the payment and discharge of any obligations imposed on Transferee under this Agreement or the Lease; and
 - (i) Transferee, its officers, directors, shareholders, agents, and employees are released and relieved of any personal liability under the Lease;
 - (ii) County shall look solely to the interests of Transferee set forth in (a) above, and
 - (iii) County shall not collect or attempt to collect any judgment out of any other assets, or from any general or limited partners or shareholders of Transferee.
- 13. Transferee's Performance Obligations. Subject to the limitations provided in Sections 11 and 12, if a Transferee acquires title to the Mortgage Premises, the Transferee shall perform and recognize all County improvement allowance provisions, all rent-free and rent rebate provisions, and all options and rights of offer, in addition to Lessor's other obligations under the Lease.

- 14. **Notice**. All notices required by this Agreement shall be given in writing and shall be deemed to have been duly given for all purposes when:
- (a) deposited in the United States mail (by registered or certified mail, return receipt requested, postage prepaid); or
- (b) deposited with a nationally recognized overnight delivery service such as Federal Express or Airborne.

Each notice must be directed to the party to receive it at its address stated below or at such other address as may be substituted by notice given as provided in this section.

The address	ses are:
Lender:	
4	
Atter	ntion:
Copy to:	
····	
Atter	ntion:
County:	Economic Development Agency 3403 Tenth Street, Suite 400 Riverside, CA 92501 Attention: Deputy Director of Real Estate
Copy to:	Attention: Deputy Director of Real Estate

Atter	ntion:

Copies of notices sent to the parties' attorneys or other parties are courtesy copies, and failure to provide such copies shall not affect the effectiveness of a notice given hereunder.

15. Miscellaneous Provisions.

- 15.1. This Agreement may not be modified orally; it may be modified only by an agreement in writing signed by the parties or their successors-in-interest. This Agreement shall inure to the benefit of and bind the parties and their successors and assignees.
- 15.2. The captions contained in this Agreement are for convenience only and in no way limit or alter the terms and conditions of the Agreement.

- 15.3. This Agreement has been executed under and shall be construed, governed, and enforced, in accordance with the laws of the State of California except to the extent that California law is preempted by the U.S. federal law. The invalidity or unenforceability of one or more provisions of this Agreement does not affect the validity or enforceability of any other provisions.
- 15.4. This Agreement has been executed in duplicate. Lender and County agree that one (1) copy of the Agreement will be recorded.
- 15.5. This Agreement shall be the entire and only agreement concerning subordination of the Lease and the leasehold estate created by it, together with all rights and privileges of County under it, to the lien or charge of the Loan Documents and shall supersede and cancel, to the extent that it would affect priority between the Lease and the Loan Documents, any previous subordination agreements, including provisions, if any, contained in the Lease that provide for the subordination of the Lease and the leasehold estate created by it to a deed of trust or mortgage. This Agreement supersedes any inconsistent provision of the Lease.
- 15.6. This Agreement may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed to be an original and all of which copies, taken together, shall constitute but one and the same instrument. Signature and acknowledgment pages may be detached from the copies and attached to a single copy of this Agreement to physically form one original document, which may be recorded without an attached copy of the Lease.
- 15.7 If any legal action or proceeding is commenced to interpret or enforce the terms of this Agreement or obligations arising out of it, or to recover damages for the breach of the Agreement, the party prevailing in such action or proceeding shall be entitled to recover from the non-prevailing party or parties all reasonable attorneys' fees, costs, and expenses it has incurred.
- 15.8. Word Usage. Unless the context clearly requires otherwise, (a) the plural and singular numbers will each be deemed to include the other; (b) the masculine, feminine, and neuter genders will each be deemed to include the others; (c) "shall," "will," "must," "agrees," and "covenants" are each mandatory; (d) "may" is permissive; (e) "or" is not exclusive; and (f) "includes" and "including" are not limiting.

Executed on the date first above written.

Lender:		
	,	
a		
By:[signature] Its:[state title]		

COUNTY OF RIVERSIDE:

	Ву:
ATTEST: Kecia Harper-Ihem Clerk to the Board	Chairman, Board of Supervisors
Ву:	
APPROVED AS TO FORM: Gregory P. Priamos, County Counse	A .
Ву:	
Deputy County Counsel	
Accepted and Agreed To:	
Lessor:	
a	<i>'</i>
By:[signature] Its: [state title]	

[Exhibit A: Legal description of Mortgage Premises]