



DEPARTMENT OF SOCIAL & HEALTH SERVICES

Project Name (Agency subdivisions)
Address

Project #000-00-00

DSHS ADDENDUM

(Effective June 25, 2012)

The following addenda items are supplementary directives to the July 2005 edition of "Leased Space Requirements", and are endorsed by Department of Social & Health Services (DSHS). They are incorporated herein as part of the drawing & specification approval package for this project, and the Lessor is required to comply with all requirements and directives delineated in its content. The specific items contained herein supersede the referenced or corresponding sections of Leased Space Requirements, and unless specified otherwise, all items contained in this Addendum are considered Basic Requirements of the project (they are not additional tenant improvements) and shall be accomplished at the sole cost and expense of the Lessor.

PART A GENERAL INFORMATION

A5.17 PLUMBING ACCESSORIES & SPECIALTY HARDWARE

add the following paragraph:

Provide the total number of plumbing fixtures required by code based on the project's leased square footage, and distribute those within the leased premises as specified in the following chart. Client fixtures shall be located in separate restrooms from the employee restrooms. There may be circumstances where the actual fixture count exceeds the code requirements.

PLUMBING FIXTURE DISTRIBUTION REQUIREMENTS

CODE REQUIREMENT		TOTAL NUMBER AND DISTRIBUTION OF FIXTURES REQUIRED BY DSHS			
where the minimum number of fixtures required by code per floor is:		WATER CLOSETS *		LAVATORIES	
W.C.	Lavs	Employee	Client	Employee	Client
≤3	≤2	2	1 (unisex)	2	1 (unisex)
4-5	3	4	1 (unisex)	2	1 (unisex)
6+	≥4	4**	2** (1M/1F)	2***	2*** (1M/1F)

* Urinals may be substituted for water closets to the extent allowed by code.
 ** Provide total number of water closets required by code, with the split of fixtures being 2/3-Employee, 1/3-Client. In the event of fractions, round UP the Employee fixture count and round DOWN the Client fixture count. Where there are more than 2 water closets required for Clients, the split of total fixtures shall be 75%-Female, 25%-Male. In the event of fractions, round UP the Female fixture count and round DOWN the Male fixture count.
 *** Add one lavatory per each two additional required water closets.

A5.22 ELECTRICAL RECEPTACLES

replace the 1st sentence with:

Provide 1 new standard-power fourplex receptacle or 2 new standard-power duplex receptacles for each 75 square feet of leased space, with a maximum of 4 duplex receptacles per circuit. One of the duplex receptacles shall be colored white or ivory (for general purpose use), and the other adjacent duplex receptacle shall be colored gray (for computers only). Do not "cross-circuit" different colored receptacles.

delete the reference to "6 duplex receptacles per circuit" in the fourth sentence.

A5.24 SERVICE POLES

add the following after the 1st sentence:

Provide one service pole (floor to ceiling) for each 300 square feet of leased space, located where shown on the approved plan. Each service pole shall be configured with separate pathways for electrical (high voltage) and data (low voltage) circuits. Each pole shall contain at least two separate high voltage circuits servicing a total of eight duplex receptacles in one pathway, and the other pathway large enough to route a minimum of ten Category 5e data cables with a nominal diameter of 0.25 inch per cable and a maximum of 40% fill in the pathway. Service poles may be provided in lieu of receptacles required in A5.22, if directed by the RES Architect. Provide colored receptacles as specified in A5.22.

Coordinate placement of above-ceiling junction boxes serving all power poles with the furniture connections or power pole locations. Complete all high voltage electrical connections.

delete the reference to "6 duplex receptacles per circuit" in the second-to-last sentence.

PART C SPECIFICATIONS

SECTION 01200- PROJECT MEETINGS AND INSPECTIONS

replace sub-section 1.2, A with the following:

- A. Provide an itemized construction schedule, including critical milestones, action items and completion dates. A complete "Critical Path" (CPM) schedule shall be provided for all new construction projects and remodels larger than 10,000 square feet. In addition, provide a three-week "look ahead" schedule, updated on a weekly basis throughout the course of each project.

SECTION 16700 – VOICE/DATA DISTRIBUTION ROOMS

replace section 16700 with the following:

SECTION 16700 – TELECOMMUNICATIONS DISTRIBUTION AND ROOMS

1.1 GENERAL

The Contractor shall coordinate with, and provide site access to the State Department of Enterprise Services, the tenant agencies Information Technology staff, and the state's telecommunications vendors and/or contractors. Coordinate the placement of all rough-

in work with all State-supplied equipment to insure the proper functioning of telecommunications systems.

1.2 **CODES AND STANDARDS**

The telecommunications distribution system (pathways) and telecommunications rooms (spaces) shall be provided in compliance with Chapter 19.28.410 Revised Code of Washington, Chapter 296-46B-010 Washington Administrative Code, and the following mandatory standards:

- A. NFPA-70 National Electrical Code (NEC)
- B. ANSI/TIA/EIA 568-C series, Commercial Building Telecommunications Cabling Standard
- C. ANSI/TIA/EIA 569-B, Commercial Building Standard for Telecommunications Pathways and Spaces
- D. ANSI/TIA/EIA 606-A, Administration Standard for Commercial Telecommunications Infrastructure
- E. ANSI/TIA-607-B, Commercial Building Grounding (Earthing) and Bonding Requirements For Telecommunications

1.3 **DEFINITIONS**

- A. *Main Telecommunications Equipment Room (ER)* – This room contains the tenant agencies computer network equipment and telephone system, and may also serve as the entrance facility and point of demarcation for the telephone company services. The tenant agencies telecommunications cabling originates in this room for distribution through the tenant spaces.
- B. *Telecommunications Room (TR)* – A room that is used to interconnect backbone cabling from the ER to individual cables that route to work area outlets on the floor. The TR will also contain computer network equipment needed to distribute to that floor. Generally, each floor will have its own TR. In a small single floor building, the ER and TR may be combined.
- C. *Work Area* – An office, cubicle, room, desk, or other location where people will need telephone and/or computer connections to do their work.

1.4 **MAIN TELECOMMUNICATIONS EQUIPMENT ROOM (ER)**

Provide one ER per building. The ER shall be constructed and provisioned in conformance with 1.2.C and F above, and as follows:

- A. The ER shall house only equipment directly related to the telecommunications/computer network systems and their support systems.
- B. The ER shall be located away from sources of electromagnetic interference such as electrical transformers, motors and generators, x-ray equipment, or radio frequency transmitting equipment.
- C. The ER shall be located to restrict access to authorized personnel only.
- D. The ER shall be sized to provide 0.75 sq. ft. of ER space for each 100 sq. ft. of work area space. Minimum ER size shall be 150 sq. ft.
- E. The ER ceiling height shall be a minimum of 8 feet without obstructions.
- F. The ER floor, walls, and ceiling shall be sealed to reduce dust. Finishes shall be light in color to enhance room lighting. Floors should have anti-static properties.

- G. The ER shall have all walls covered with $\frac{3}{4}$ inch A/C grade plywood per Section 06200 1.3.
- H. The ER lighting shall be a minimum of 500 lx (50 foot-candles), measured 3 feet above the floor.
- I. The ER door shall be a minimum 36 inches wide and 80 inches high. The door shall be fitted with a lock. There shall be a route from the ER to the exterior of the building with all doors the same size or larger to facilitate the movement of equipment.
- J. The ER floor shall accommodate a minimum distributed load of 100 lbs. per sq. ft., and a minimum concentrated load of 180 lbs. per sq. ft.
- K. The ER shall be provided with HVAC on a 24 hours-per-day, 365 days-per-year basis. The ER temperature and humidity shall be controlled to provide a continuous operating range of 64 to 81 degrees F with a maximum of 60% relative humidity.
- L. The ER shall have convenience power outlets located on the walls per the NEC. In addition, the ER shall have dedicated power circuits for electronics equipment as follows:
 - 1. A minimum of two 20 amp quad power outlets, each on its own dedicated circuit breaker, with additional circuits as may be shown on the drawings.
 - 2. One 30 amp outlet with an L5-30R receptacle to power the state provided UPS equipment.
- M. The ER shall be equipped with a Telecommunications Bonding Backbone (TBB) cable. The TBB shall be connected to the building main electrical system grounding electrode with a minimum size #6 AWG stranded copper ground cable. The TBB ground cable gauge shall be selected based on cable length per 1.2.F above. The TBB shall be installed with a minimum of 20 feet of slack cable coiled in the ER.

1.5 TELECOMMUNICATIONS ROOM (TR)

Provide a minimum of one TR for each additional floor in the building. In large buildings, multiple TR's may be required on each floor. The maximum cable length from the ER or TR to the Work Areas on that floor may not exceed 295 feet (100 meters). Provide additional TR's to insure that each Work Area can be served within the distance limits.

- A. The TR shall be located as close as practical to the center of the area being served.
- B. TR's should be stacked in multi-story buildings
- C. Provide a minimum of two 4-inch conduits or conduit sleeves to interconnect the ER and all TR's. Multiple TR's on a floor shall be interconnected with a minimum of one 3-inch conduit, or equivalent size pathway.
- D. TR's shall be sized at a minimum of 10 foot by 7 foot to serve up to 5,000 square feet of work area. Smaller size TR's or telecommunications cabinets may only be used with prior approval of the DSHS Information System Services Division.
- E. The TR shall have a 4 foot by 8 foot $\frac{3}{4}$ -inch A-C plywood backboard meeting the requirements of Section 06200 1.3 mounted on two adjacent walls.
- F. Lighting, door size, ceiling height, and floor and wall treatment shall be the same as described in 1.4 above.
- G. HVAC shall be provided to maintain a temperature the same as the adjacent office area, but not to exceed 95 degrees F. The HVAC shall provide a minimum of one air exchange per hour in the TR.

- H. Each TR shall have two 20 amp duplex outlets, each on a dedicated circuit breaker, for electronics equipment. In addition, provide convenience outlets per the NEC.
- I. The TR shall be equipped with a Telecommunications Bonding Backbone (TBB) cable. The TBB shall be connected to the building main electrical system grounding electrode with a minimum size #6 AWG stranded copper ground cable. The TBB in each TR's shall be bonded to the TBB in the ER. The TBB ground cable gauge shall be selected based on cable length per 1.2.F above. The TBB shall be installed with a minimum of 20 feet of slack cable coiled in the TR.

1.6 TELECOMMUNICATIONS DISTRIBUTION PATHWAYS

Provide telecommunications distribution pathways in compliance with 1.2.C above, and as follows:

- A. For each wall outlet location, provide a 4" X 4" outlet box with a single gang mud ring, and a 1" conduit to the accessible ceiling area. Each conduit shall have a pull string installed.
- B. Provide appropriately sized conduits or conduit sleeves from the ER/TR to the accessible ceiling area serving the work areas. Conduits/sleeves shall be sized to accommodate a minimum of two Category 5e cables, at a nominal diameter of 0.25 inches each, to each work area served, with a maximum of 40% fill ratio in the conduit/sleeve. Telecommunications conduits shall have no more than two 90 degree bends, or a total of 180 degrees of bend, without an accessible pull box.
- C. All telecommunications distribution pathways shall be installed in dry locations as defined in NFPA-70, Article 100.
- D. The integrity of all firestop assemblies shall be maintained when penetrated by cable pathways.
- E. Pathways shall be arranged and installed to maintain the minimum separation from other conductors as defined in NFPA-70, Article 800.133.
- F. Surface mounted raceways used to accommodate modular furniture shall be sized per 1.6.B above. Surface mounted raceways shall be manufacturer standard products certified as raceways for high performance data cabling. Wiremold, Panduit, or equivalent.

END OF DSHS ADDENDUM