

# EXHIBIT 'B' OUTLINE SPECIFICATIONS

PROJECT: PROJECT NO.:  
 AGENCY: LEASE NO.:  
 LOCATION: DATE:

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PROJECT CONTACT: PHONE:  
 EMAIL: FAX:

**Confirmation Statement**

I/we have read this Exhibit 'B' Outline Specifications and understand it is incorporated into, and is part of, this lease. I/we have acknowledged each and every page by placing my/our initials on this cover sheet.

Initials \_\_\_\_\_

**EXHIBIT B – OUTLINE SPECIFICATIONS  
DIVISION 1**

**DIVISION 1 - GENERAL REQUIREMENTS**

**1.1 SUMMARY**

- A. The Outline Specifications describe minimum standards of quality and performance for premises occupied by the State. Construction methods or materials other than those stated herein may be acceptable if, in the opinion of the State, they provide equal quality and performance.

**1.2 RELATED DOCUMENTS**

- A. Lease
- B. Exhibit “A” – Plans or Facility Design Program (written narrative)
- C. Exhibit “B” – Division 3 Special Provisions:
  - 1. Refer to Division 3 of this specification for Special Provisions, which may amend and or supersede Division 1 and 2 requirements.
- D. Exhibit “B” – Division 4 Technical Requirements:
  - 1. Refer to Division 4 of this specification for Technical Requirements, which may amend and or supersede Division 1 and 2 requirements.
- E. Exhibit “C” – Administrative Requirements
  - 1. Refer to Exhibit “C” for specific requirements related to the following:
    - a. State Fire Marshal Procedures
    - b. Access Compliance Procedures (CBC/ADA)
    - c. Green Building Practices

**1.3 GENERAL PROVISIONS**

- A. Wherever reference is made to "State," "Agency," "Department," or other State of California administrative department, this shall be construed to mean Department of General Services, Real Estate Services Division, Real Estate Leasing & Planning Section, here and after referred to as DGS.
- B. The State’s intent is to achieve adequate standards of quality while avoiding unnecessary alterations, so that in all cases where an existing feature is acceptable to DGS, the Lessor’s obligation is only to maintain that feature as it exists.
- C. The Lessor shall immediately address conflicts, omissions, or errors if discovered within the Exhibits, or any questions regarding interpretation or clarification, by submitting in writing to the State, a Request for Information (RFI). Responses from the State will not change any requirement of the lease Exhibits unless so noted by the State in the response to the RFI. In case of conflicts between Exhibit “A” and the Exhibit “B”, the Exhibit “A” supersedes these specifications.
- D. Lessor shall patch, repair, and refinish to match, all existing surfaces disturbed by the new construction. Upon completion of the project, there shall be no visual difference between the new work and the existing conditions. No changes, modifications, or substitutions shall be made to the premises as shown, except with the prior written approval of DGS.
- E. LEED Certification: In the event the lease contract provides for a LEED certified facility, see Division 3 Special Provisions.

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- F. Prevailing Wage: For those projects defined as "public works" pursuant to Labor Code §1720.2, Lessor/contractor shall comply with prevailing wage requirements and be subject to restrictions and penalties in accordance with §1770 et seq. of the Labor Code which requires prevailing wages be paid to appropriate work classifications in all bid specifications and subcontracts.
- G. Project Schedule: Upon execution of the lease, Lessor shall issue to DGS, a complete and detailed Critical Path Method (CPM) schedule for the project, which may be adjusted by mutual agreement as the project proceeds. The schedule shall include allowances for periods of time necessary for the installation of State-owned equipment and modular systems furniture.
- H. Construction Cost: Prior to construction, Lessor shall provide to the State competitive bids from at least three licensed contractors/subcontractors and shall contract with the lowest acceptable bidder. The bids shall include all charges such as, but not limited to labor, materials, tools, equipment, fees, taxes, shipping, handling, permits, inspections, and fabrication for the work defined in the lease exhibits. The bids shall also include any architectural and engineering fees. The bids shall be itemized unit cost construction estimates developed by using the Construction Specification Institute (CSI) format, titles, and numbering system. Lump sum cost estimates are not acceptable.
- I. New Shell Condition: The following items shall be provided by the Lessor and shall not be construed as tenant improvements:
- a. Exterior Window Coverings
  - b. Capital improvements to the building's core and shell
  - c. Building's perimeter walls and core walls with drywall finish ready for paint
  - d. Fire sprinkler main loop including drops and heads
  - e. Electrical service at a minimum of 5 watts per square foot
  - f. HVAC equipment and ducting to the premises
  - g. Code required toilet room facilities
  - h. Americans with Disability Act (ADA) and California Building Code (CBC) compliance work to correct all deficiencies to comply with current code
- J. Previously Constructed and Occupied Space (Second Generation Condition): In addition to items in paragraph I. above, Lessor shall provide the following at no cost to the State:
- a. Code compliant ceiling
  - b. Code compliant lighting systems
  - c. Any code required exit door and frame assemblies
- K. Usable Area Calculation: For the purpose of determining the net useable square feet, State leased space shall be calculated as follows:
- 1. Net usable office area includes all areas assigned to the State such as: offices, conference rooms, reception rooms, special use and supply rooms, hallways within the space, laboratories, private toilet rooms/showers, break rooms, auditoriums, cafeterias, and spaces exclusively used by State. Net usable office area does not include stairwells, stacks/shafts, janitor closets, mechanical rooms, electrical rooms, code required toilet rooms, code required common area corridors,

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and common area lobbies. Net usable office area is measured from the finished surface of the office side of the corridor and other permanent walls, the dominant surface (wall or glazing) of the exterior walls, and from the centerline of demising walls separating other building tenants.

- L. Record Documents: Lessor, at Lessor’s sole cost and expense, shall provide the State accurate architectural drawings of the “as-is” condition of the space to be leased, including building common areas, site/parking plan, and path of travel. The drawings shall be in an electronic format to be determined by DGS. Any required re-design work caused by discrepancies with the “as-is” drawings shall be the responsibility of the Lessor.
  - M. Green Building Practices: The Lessor Shall operate and maintain the leased premises in accordance with best practices to achieve energy efficiency, sustainability, improved air quality, reduce water usage and enable maximum recycling efforts throughout the term of the lease.
    - 1. New and renegotiated state building leases shall reduce energy and resource use to the extent possible and economically feasible.
    - 2. New (state) building leases shall, where economically feasible, include sub-meters and provide energy use data into Energy Star’s Portfolio Manager.
    - 3. Renegotiated state (building) leases for buildings where the State is a sole tenant shall provide energy use data into Energy Star’s Portfolio Manager.
    - 4. New and renegotiated state building leases shall encourage landlords to participate in utility sponsored energy conservation measures, using alternative financing.
    - 5. Lessors are encouraged to implement measures of the California Green Building Standards Code, (CalGreen), related to indoor environmental quality, where economically feasible, for all new or renegotiated leases.
    - 6. The State will identify and pursue opportunities to provide electric vehicle charging stations, and accommodate future charging infrastructure demand, at employee parking facilities in new and existing buildings.
    - 7. All equipment and appliances provided by Lessor shall be Energy Star labeled if Energy Star is applicable to the equipment or appliance.
    - 8. Wherever restroom fixtures are replaced during construction the California Green Building Standards voluntary measures are to be met to achieve a further reduction in water usage for state leased space (Tier 1, 30% reduction minimum).
    - 9. Lessor to implement annual irrigation system audits, including leak detection and perform immediate repairs to minimize any water loss.
  - N. Submittals: Lessor shall submit shop drawings, product data, and samples to the State for review prior to construction or fabrication.
  - O. Material Safety Data Sheet (MSDS): Prior to construction and upon request by State, Lessor shall provide MSDS of all products or materials used in the maintenance, repair, or renovation of the premises.
- 1.4 CONSTRUCTION AND CODE CRITERIA
- A. Construction Documents: The Exhibit “A” Plan or the Exhibit “A” Facility Design Program (written narrative) are design development guidelines only. Lessor shall

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provide all required construction documents and calculations necessary to obtain a building permit from the local Building Department and to construct the improvements as indicated. The use of Exhibit “A” Plan in lieu of construction documents is not acceptable to the State.

1. Prior to submitting construction documents to the local building department for plan check and or permitting, Lessor shall submit said construction documents to DGS for review. Any DGS comments to the construction documents shall be construed as advisory only and shall not relieve the Lessor in any respect from full compliance with Exhibits “A”, “B”, and “C” or any other exhibits.
  2. Lessor’s architect, engineers, consultants, and contractors shall have current and valid license/certifications as issued by the State of California.
  3. During construction of building’s core, shell, and or tenant improvements, Lessor shall maintain at the project site, a complete set of lease Exhibits consisting of Exhibit “A”, “B”, “C” and any other exhibits for DGS use.
- B. State Fire Marshal: Concurrent with submission to the building department for permitting, Lessor shall submit a complete set of construction documents, including fire sprinkler plans and fire alarm plans, to the State Fire Marshal for review and approval and shall arrange for periodic inspections of the work (refer to Exhibit “C” for procedures). No construction should commence without approved plans.
- C. Access Compliance: Lessor shall ensure that all new work and existing conditions comply with the requirements of CCR Title 24, California Building Code (CBC), and Americans with Disabilities Act (ADA). State agencies are public entities and shall comply with Title II of the ADA. Exceptions to the code for existing buildings are not permitted. Where CBC requirements conflict or differ with ADA requirements, the most stringent requirement shall take precedence. Access compliance shall apply to exterior areas such as, but not limited to, path of travel to and from public transportation and public right-of-way, parking, passenger drop-off and loading zones, walks and sidewalks, curb ramps, ramps, and all stairs. Access compliance shall also apply to interior areas such as, but not limited to, entrances and exits, lobbies, building common areas, elevators, access lifts, doors and gates, access to and through all rooms and spaces, restrooms, signs and identification, counters, waiting, and seating areas, assistive listening systems, telephones, drinking fountains, alarms, and horizontal/vertical access. See Exhibit “C” for procedures.
- D. Codes and Ordinances: All new work and existing conditions shall comply with all current regulations, laws, and ordinances of the governmental authorities having jurisdiction and the applicable editions of the following codes including, but not limited to:
1. Title 8 CCR – Industrial Relations
  2. Title 17 CCR, Public Health
  3. Title 19 CCR, Public Safety, State Fire Marshal Regulations
  4. Title 24 CCR, Part 1 – Building Standard Administrative Code
  5. Title 24 CCR, Part 2 – California Building Code (CBC), Vols. 1 & 2
  6. Title 24 CCR, Part 3 – California Electrical Code (CEC)
  7. Title 24 CCR, Part 4 – California Mechanical Code (CMC)
  8. Title 24 CCR, Part 5 – California Plumbing Code (CPC)
  9. Title 24 CCR, Part 6 – California Energy Code
  10. Title 24 CCR, Part 9 – California Fire Code (CFC)
  11. Title 24 CCR, Part 11 – California Green Building Standards Code
  12. Title 24 CCR, Part 12 – California Reference Standards Code

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If fire-life safety, health hazards, and/or non-compliant code conditions are discovered either before or after occupancy, then Lessor, at Lessor's sole cost and expense, shall correct the condition.

- E. Building Permit: Lessor shall obtain a building permit for the required construction from the local building department if required. In the event there is no local building department, Lessor, at Lessor's sole cost and expense, shall provide a third party, independent Inspector of Record (IOR). The IOR shall perform periodic inspections of the work for conformance with all regulations, laws, and ordinances.
- F. Safety Evacuation Plans: Lessor shall provide safety evacuation plans of the leased premises. The safety evacuation plans shall clearly delineate evacuation routes, exits, fire extinguishers, and fire alarm pull station locations. The plans shall be a minimum of 8" x 10" in size, framed and under glass or clear plastic. The plans shall be installed in all assembly occupancies including conference rooms, break rooms, reception areas, and where requested by SFM.
- G. Fire Extinguishers: Lessor shall provide and install fire extinguishers. Fire extinguishers shall be housed in semi-recessed cabinets and shall be located as required by CA Title 19 CCR, Public Safety. Above each fire extinguisher, at approximately 90" A.F.F., Lessor shall furnish and install a red triangular shaped 3-D sign with printed text 'Fire Extinguisher' with an arrow pointing down. Lessor shall provide annual servicing of the fire extinguishers throughout the term of the lease.
- H. Seismic Performance: The State will consider only those facilities that can demonstrate the ability to meet a seismic performance level as set forth in:
  - 1. 1998 Edition or subsequent editions of the California Building Code or,
  - 2. 1976 Edition or subsequent editions of the Uniform Building Code and the building does not have any one of the enumerated characteristics or conditions listed below:
    - a) Unreinforced masonry elements, whether load-bearing or not, not including brick veneer.
    - b) Precast, pre-stressed or post-tensioned structural or architectural elements, except piles.
    - c) Flexible diaphragm (e.g., plywood) shear wall (masonry or concrete) structural system constructed pursuant to editions of the Uniform Building Code prior to the 1997 edition.
    - d) Apparent additions, alterations, or repairs to the structural system made without a building permit.
    - e) Constructed on a site with a slope with one or more stories partially below grade (taken as 50% or less) for a portion of their exterior.
    - f) Soft or weak story, including wood frame structures with cripple walls or if construction is over first-story parking.
    - g) Seismic retrofit of the building, whether voluntary or mandated, whether partial or complete.
    - h) Repairs following an earthquake.
    - i) Welded steel moment frames (WSMF) that constitute the primary seismic force-resisting system for the building, and the structure was designed to code requirements preceding those of the 1997 edition of the Uniform Building Code, and the building site has experienced an earthquake of sufficient magnitude and site peak ground motions that inspection is required when any of the conditions of Section 3.2 of

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FEMA 352 indicate an investigation of beam-column connections is warranted.

- j) Visible signs of distress or deterioration of structural or non-structural systems, e.g.; excessively cracked and/or spalling concrete walls or foundations, wood dry rot, etc.
- 3. Certification of the above requirements must be provided by an independent licensed structural engineer at the Lessor's expense.
- 4. Lessor shall provide and install all hardware required to brace and anchor all storage cabinets, lockers, bookcases, shelving units and similar furnishings 5'-0" or more in height whether provided by State or Lessor, in accordance with seismic design requirements of the Code.

**1.5 SUBSTANTIAL COMPLETION AND PROJECT COMPLETION**

- A. Premises shall fully conform to all lease Exhibits and shall be constructed in accordance with industry standards and best practices. Lessor guarantees that all mechanical, electrical, plumbing systems and other features (including architectural finishes, paint, hardware, doors, floor covering, etc.) are of quality capable of giving satisfactory service in accordance with these specifications for the term of this lease.
- B. Substantial completion is achieved when the, building core, shell, and tenant improvements as defined in the lease exhibits, including the installation of any modular systems furniture (MSF) are sufficiently completed to allow the State to lawfully and physically occupy the premises for its intended purpose. Any work required to complete any outstanding punch list items shall not interfere with, or interrupt the State's daily operations. DGS planner will make the final determination of when substantial completion is achieved.
- C. Lessor shall operate the HVAC system to provide continuous air for a minimum of 24 hours per day for 7 days prior to occupancy.
- D. State employees, agents, and invitees shall have ready access to the building and premises through the main building entry and lobby. Elevators, stairs and restrooms shall be operational.
- E. The premises shall be free of all construction debris and thoroughly cleaned. Lessor shall touch up and restore damaged or defaced painted surfaces throughout the premises subsequent to installation of State's furnishing and equipment. All painting shall be coordinated with DGS planner.
- F. Upon project completion, Lessor shall obtain final approvals from the authorities having jurisdiction and all punch-list items shall have been completed, and re-inspected by the State. Lessor shall submit to the State the following completed documents, if applicable, with all appropriate signatures:
  - 1. Building Permit
  - 2. Building Inspection Card
  - 3. Certificate of Occupancy
  - 4. Fire Department approvals
  - 5. State Fire Marshal Final Construction Approval – Exhibit "C" Form D
  - 6. CBC/ADA Access Compliance Fee Calculation – Exhibit "C" Form E
  - 7. CBC/ADA Access Compliance Verified Report – Exhibit "C" Form G
  - 8. LEED Certification – when applicable
  - 9. Air Balance Report

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10. Operation manuals and training for equipment such as, but not limited to intrusion alarm system, video conferencing equipment, and appliances.

**1.6 HAZARDOUS MATERIALS**

- A. Lessor warrants and guarantees that the premises leased to the State will be operated and maintained free of hazard from asbestos, lead, mold, and PCB's.
  1. The areas include:
    - a. Premises leased to the State and air plenums in the same HVAC zone.
    - b. Common public areas which state employees or its invitees would normally and/or reasonably use.
    - c. Building maintenance areas, utility spaces, and elevator shafts within or servicing areas described in items a. and b. above.
  2. Lessor shall be responsible for all costs associated with the abatement of hazardous materials including but not limited to the following; clean up of contaminated State Leased space, State-owned equipment, furnishings and materials and all required monitoring reports. Copies of all air monitoring reports shall be furnished to the State.
  3. The State Leased space shall be maintained at or below the permissible exposure levels for all substances regulated under Title 8 California Code of Regulations Section 5155. If it is determined by the State that the tenant must be relocated to prevent exposure above the permissible level, the Lessor shall provide comparable accommodating space at no cost to the State. In addition, the Lessor shall pay for all costs associated with this move including but not limited to; administrative, furniture, communications contracts and equipment costs.
  4. In the event that after written notice is provided by the State, the Lessor fails, refuses, or neglects to diligently pursue abatement of any hazardous material, the State may effect such abatement. The State may deduct all reasonable costs of such abatement of Hazardous materials from the rent.
  5. The Lessor shall indemnify, defend, and hold the State of California, its officers, and employees harmless from and against any and all losses, damages, judgments, expenses (including court costs and reasonable attorney fees), or claims whatsoever, arising out of, or in any way connected with or related to, directly or indirectly, the presence of hazardous materials within the State-leased space or the building in which the leased premises are located.
- B. Asbestos
  1. For buildings constructed prior to January 1, 1979, the Lessor shall provide the State with a current written asbestos survey of the areas listed in Section 1.6. A.1. An independent California Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant shall complete the survey.
  2. For buildings constructed after December 31, 1978, and prior to any tenant improvements or major repairs, the Lessor and his construction contractor are responsible for sampling any suspected asbestos containing material (ACM) to be disturbed during the project. Where ACM is suspected to be present, the Lessor shall provide the State with a written asbestos survey covering all materials to be disturbed during the project. An independent

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California Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant shall complete the survey.

3. Where asbestos containing material (ACM) or suspect ACM have been identified by survey, the Lessor shall provide the State with a copy of a written Operations and Maintenance (O&M) plan. This O&M Plan must be effective in minimizing damage or disturbance of any ACM or suspect ACM and provide for quick repairs of the same.
4. If damaged ACM or suspect ACM is found, or the physical condition of ACM indicates possible fiber release, a response action in accordance with the approved O&M Plan shall be conducted. The approved O&M plan shall include provisions for air sampling by an independent Certified Industrial Hygienist during and at the completion of all response actions; analysis of air samples shall be conducted utilizing Transmission Electron Microscopy (TEM). The standard for re-occupancy of an affected area shall be concentrations at or below 70 asbestos structures per millimeter squared (structures/mm<sup>2</sup>).
5. Lessor shall perform asbestos notification as required by Chapter 10.4 of the Health and Safety Code. Any abatement work shall be performed by a licensed contractor with asbestos certification (ASB). The State reserves the right to establish consultant oversight of any asbestos related work program at its expense.
6. In addition to any other remedies it may have, in the event the Lessor fails to diligently pursue abatement of hazard from ACM, as required under the provisions of this lease, the State may, by notice in writing, terminate this lease. Lessor shall be liable to the State for all expenses, losses, and damages reasonably incurred by the State as a result of such termination, including but not limited to, additional rental necessary to pay for an available, similar replacement facility. This rental shall extend over the period of what would have been the remaining balance of the lease term plus any option periods, costs or any necessary alterations to the replacement facility, administrative costs, and costs of moving furniture, data processing, and telephone equipment.

**C. Lead Material:**

1. Any material suspected of containing lead within the areas listed in Paragraph "A" shall be tested and identified through sampling by an independent California Department of Public Health Certified (CDPH) Lead-Related Construction Inspector/Assessor.
2. In the event lead removal is required, Lessor shall provide an independent CDPH Certified Lead-Related Construction Inspector/Assessor to inspect the quality of work for compliance with applicable regulations, perform air monitoring, final clearance visual inspection, wet wipe sampling/lab analysis, and ensure proper handling and/or disposal of hazardous waste.

**D. Mold:**

1. The Lessor shall operate and maintain the leased premises to be free of hazard from mold.
2. If mold is detected within the State Leased Space, an immediate response action in accordance with industry standard practices shall be undertaken by the Lessor. The Lessor shall contract for the services of an independent California Division of Occupational Safety and Health

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(DOSH) Certified Industrial Hygienist to determine the appropriate response action.

3. Lessor shall be responsible for all costs associated with any hazard response action.

E. Underground storage tanks (UST):

Lessor shall comply with the requirements of the California Health and Safety Code, Section 25280-25299.8 (Underground Storage Tanks).

***END OF DIVISION 1***

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DIVISION 2**

**For items that are shown with strikethrough (~~strikethrough~~) please refer to Division 3, Special Provisions for amendments to the requirements.**

**DIVISION 2 - DESIGN REQUIREMENTS**

**2.1 FLOOR CONSTRUCTION AND FINISHES**

**A. Concrete Floor:**

1. Concrete floor construction is the standard for comparison. Floors of other material may be acceptable provided its use does not produce or transmit sound or vibration to a greater degree than a 4" reinforced concrete slab.
  - a. Lessor shall provide certification that the concrete slab is level and does not exceed a variance of ¼ inch in 10 feet from a true flat plane.
  - b. Where slab is out of compliance, leveling shall be achieved using a high-strength concrete topping compound i.e.: Mapei, Ardex, Inc., K-500, Hacker Ind., Firm Fill 4010, Maxxon, Level-Right, or approved equal.
2. Concrete floors in janitor closets, mechanical, and/or electrical utility rooms shall be cleaned and treated with epoxy coating. Office areas throughout shall have carpet or other floor covering with 4" high cove base, unless noted otherwise. Floors in toilet rooms shall be of nonabsorbent material impervious to moisture such as ceramic tile, or approved equal, with minimum 4" high cove base. Floor covering shall extend under counters and cabinets. Colors and patterns shall be as selected or approved by State.
3. Prior to the installation of any finish floor material, Lessor shall perform a quantitative moisture test to the concrete slab. The test shall be administered in accordance with the flooring material manufacturer's written guidelines or recommendations. In the event the moisture content exceeds the flooring material manufacturer's recommendation, the Lessor, at Lessor's sole cost and expense, shall provide and install a waterproofing sealer as recommended by the flooring material manufacturer.
4. Exposed concrete floors are not acceptable in toilet rooms, locker rooms, or shower rooms.

**B. Carpet Flooring - General:**

1. Lessor shall provide and install carpet and cove base where shown in Exhibit "A". All carpet shall comply with ANSI/NSF 140-2007 Platinum level.
2. Where requested by DGS, Lessor shall submit carpet samples to DGS for selection. The samples shall be from a minimum of three different manufacturers and consist of a variety of patterns, textures, colors, and styles.
3. Carpet shall have random graphic pattern loop non-generic branded, 6 or 6.6 nylon face yarn with inherent static control.

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4. Broadloom loop pile carpet shall have inherent static control capability to assure a maximum 3.5 KV rating at 20% relative humidity and 70F degrees as measured by AATCC-Test Method 134.
5. Carpet with anti-microbial properties shall be used for healthcare, senior care or childcare, and 'clean' areas.
6. Carpet shall be installed according to manufacturer's guidelines. The carpet shall be securely attached, have a firm cushion, pad or backing, be of level loop, textured loop, level-cut pile, or level-cut/uncut pile texture. The maximum pile height shall be ½ inch.
7. The carpet backing shall have a minimum 10-year guarantee against tuft pull and zippering, and surface wear shall not be more than 10% within 10 years.
8. Carpet adhesives shall be non-toxic, low odor, solvent free, and shall not produce toxic vapors or contain carcinogenic materials.
9. Carpet shall meet Federal, State, and Local flammability standards.
10. Carpet shall be installed in accordance with the Carpet and Rug Institute CRI Carpet Installation Standard. The installation shall be guaranteed against bubbling, wrinkling, stretching/shrinking, opening seams, or other evidence of poor materials and workmanship for a period of two years following installation. This guarantee shall cover normal wear and tear and note deficiencies occurring as a result of damage, negligence and/or alterations. The materials shall be guaranteed against wear, delamination, tuft bind and be lightfast for a period of 10 years. The material shall remain colorfast as a result of atmospheric contaminants for a period of 5 years after installation.
11. Lessor shall maintain the carpet according to manufacturer's guidelines.

C. Broadloom Carpet Requirements:

1. Density: 6000 minimum; heavy commercial use.
2. Density: 36x finished pile weight divided by pile height.
3. Tuft bind for broadloom shall be minimum 6 lbs., ASTM D 1335 – 98, Standard Test Method for Tuft Bind (edge ravel) of Pile Yarn Floor Coverings, tested wet or dry. Warranty edge ravel for 10 years.
4. Face yarn weight: Minimum 22 oz/sq. yd.
5. Minimum of 10 lbs backing delamination test, ASTM D3936 - 05 Standard Test Method for Resistance to Delamination of the Secondary Backing of Pile Yarn Floor Covering.
6. Minimum rating of 7 anti-stain tests; AATCC Test Method 175-2008 Stain Resistance Pile Floor Coverings.
7. Lessor shall provide 2% of product overage including accent carpet up to a maximum of 100 sq. yards from the same dye-lot for future repairs.

D. Carpet Tile Requirements:

1. Density: 5000 minimum; heavy commercial use.
2. Tuft bind strength shall be minimum 5 lbs., ASTM D 1335-98: Standard Test Method for Tuft Bind (edge ravel) of Pile Yarn Floor Coverings, tested wet or dry. Warranty edge ravel for 10 years.
  - a. Face yarn weight: Minimum 16 oz/sq. yd

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- b. Minimum of 10 lbs. backing delamination test, per ASTM D3936-05 Standard Test Method for Resistance to Delamination of the Secondary Backing of Pile Yarn Floor Covering.
  - c. Minimum rating of 7 anti-stain tests, per AATCC Test Method 175-2008 Stain Resistance Pile Floor Coverings.
  - d. Lessor shall provide 2% of product overage including accent carpet up to a maximum of 100 sq. yards from the same dye-lot for future repairs.
- E. Ceramic Tile Flooring Requirements:  
Ceramic Tile Flooring shall have a coefficient of friction of at least 0.6 per ASTM C1028 (0.8 % on sloped surfaces steeper than 6%). Unless otherwise noted by DGS, provide slip resistant floor tile with matching ceramic base, include all inner and outer corner and trim pieces. All adhesives, mastics, and grouts shall be non-toxic and low in VOC emissions and shall be as recommended by the ceramic tile manufacturer. All grout shall be sealed and maintained according to manufacturer's guidelines.
- F. Resilient Flooring Requirements:
- 1. Resilient Flooring shall meet ASTM F 1066, FS SS-T-312B, Type IV, Composition 1, Class 2, 12" X 12" having uniform thickness of 1/8" with square true edges of manufacturer's standard color and pattern as selected. Product shall comply with all regulations controlling the use of volatile organic compounds (VOC's). Provide one carton (40 pieces) of additional matching floor tile.
  - 2. Resilient Flooring shall have a coefficient of friction of at least 0.6 per ASTM D2047. It shall be installed in strict accordance with manufacturer's approved installation instructions using the appropriate recommended 100% solvent free adhesive.
- G. Rubber Base Requirements:
- 1. Lessor shall provide and install cove wall base at all carpet and resilient floor finish areas. Wall base shall be extruded rubber cove, 1/8" thick x 4" high complying with ASTM F-1861. The color shall be selected by DGS.

**2.2 EXTERIOR WALLS**

- A. Exterior walls, including door and window assemblies, shall be weatherproof. All cracks that allow outside air to penetrate the building's envelope shall be sealed.
- B. Exterior walls shall be insulated to comply with CCR Title 24.

**2.3 INTERIOR WALLS AND PARTITIONS**

- A. Walls and partitions shall be ceiling height unless otherwise noted in Exhibit "A" or Division 3 'Special Provisions'. Subject to code limitations, those indicated as new partitions may be wood or metal stud with plaster or gypsum wallboard or other construction of equal sound transmission coefficient (STC). Provide a minimum STC 32. Demising walls separating State premises and other building tenants shall extend to the under-side of structure above and shall be constructed to achieve a sound transmission coefficient of 50.
- B. Walls of equipment rooms, toilet rooms, conference rooms, hearing rooms, quiet rooms, training rooms, interview rooms, employee break rooms, and where indicated in Exhibit "A", shall be insulated to prevent transmission of sound or vibration. Wall construction shall achieve a minimum rating of 50 STC as set forth in ASTM E90.

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Furnish and install insulation batts above the finished ceiling on each side of the wall for the entire length of the wall.

- C. Moisture resistant wainscot of ceramic wall tile or other DGS approved material shall be installed to all plumbing fixture walls and adjacent walls in the toilet rooms. Wall tile shall be a minimum of 4"x 4" glazed ceramic tile. Wainscot shall extend a minimum of 4'-0" A.F.F. unless noted otherwise.
- D. Glazed openings in office partitions shall be set in metal frame assemblies and comply with Consumer Product Safety Commission impact-safety standards.

**2.4 ROOF AND INSULATION**

- A. Roof shall be weather tight and provided with suitable drainage system that will effectively dispose of roof water without interfering with use of premises.
- B. Roof shall be insulated such that the heat transfer values from roof to occupied areas comply with CCR Title 24.

**2.5 ACOUSTICAL CEILINGS**

- A. Ceilings of office areas including reception, private offices, open office areas, corridors, and office storage areas shall have suspended "T" bar systems with acoustical lay-in tiles or other approved material with equivalent acoustical qualities. Ceiling heights shall be a minimum of 9'-0" and a maximum of 12'-0" unless otherwise approved by DGS.
- B. Where existing "T" bar system with acoustical lay-in tiles are reused, Lessor shall modify ceiling system as necessary to comply with all seismic safety regulations. "T" bar system and ceiling tiles shall be free of all dirt, dust, stains, and damage. Where replacement tiles are installed, all tiles shall be arranged as necessary to provide a uniform appearance in each enclosed space.

**2.6 DOORS**

- A. All interior doors shall be solid-core flush wood doors with wood veneer suitable for stain or paint finish. Doors shall be a minimum dimension of 3'-0" x 6'-8" x 1-3/4".
- B. Doors shall be manufactured per Window & Door Manufacturers Association (WDMA) and Architectural Woodwork Standards (AWS).
- C. The formaldehyde emission level of all new doors shall not exceed 20 ppm.
- D. Glass vision panels in interior doors and sidelights shall be minimum 3/8" clear tempered glass set in metal frame assemblies. Fire protective glass assemblies shall be provided where required by code.
- E. Fire rated door and frame assemblies shall be installed where noted in Exhibit "A" or as required by code. Doors and frames shall bear Underwriters Laboratory (UL) label for required fire resistive rating.
- F. Doors separating conditioned and non-conditioned space shall have weather stripping to effectively limit air infiltration. Adhesive foam-type or felt weather stripping is not acceptable.
- G. Where indicated on plans, or required by code, a roll-down steel fire shutter bearing a UL 3/4 hour, "C" label shall be provided. Emergency operation shall be by smoke detectors with adjustable time delay, initially set at 45 seconds.

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- H. Where existing door and frame assemblies are reused, Lessor shall patch, repair, adjust, and refinish the assemblies to provide a new looking appearance.

**2.7 DOOR HARDWARE**

- A. Lessor shall provide and install door hardware and related items including keying of locksets necessary for a complete installation and operation of doors.
- B. All hardware shall be CBC/ADA access compliant, heavy-duty commercial quality equal to Schlage, Von Duprin, or Falcon.
- C. Door hardware shall include, but is not limited to, cylindrical lock and latch sets, door butt hinges, doorstops, push plates, door pulls, closers, and exit devices.
- D. Hinges for exterior outswing doors shall have non-removable pins.
- E. Doorstops shall be provided and installed wherever an opened door or any item of hardware thereon would strike a wall, column, equipment, or other parts of building construction. Doorstops shall be floor mounted.
- F. Lessor shall key all keyed locksets as directed by tenant agency and shall provide a minimum of 3 keys for each lock.
- G. Metal thresholds and weatherstrips shall be provided to all exterior doors. Thresholds shall have non-slip abrasive finish.
- H. Adjustable door closers shall be provided on entrance doors, toilet room doors, vestibule doors, doors with access-control hardware, and where shown on plans, and required by code.
- I. 10" high metal kick plates shall be provided and installed on the push side of all doors equipped with door closers.

**2.8 MILLWORK**

- A. Lessor shall provide and install new millwork as shown and where indicated in Exhibit "A".
- B. All millwork shall be manufactured and installed in accordance with the Architectural Woodwork Standards (AWS) latest edition, for custom grades. Prior to fabrication, Lessor shall submit to the DGS, shop drawings of all new millwork.
- C. Cabinets shall be of sizes and type as indicated in the Exhibit "A". Base cabinets shall have one row of drawers and one adjustable shelf below with concealed hinged doors, unless noted otherwise. Lessor shall provide a 4" toe space at base cabinets. Upper cabinets shall have two rows of adjustable shelves and hinged doors, unless noted otherwise.
- D. Counter tops shall be finished with plastic laminate or solid surface material. Counter tops shall be self-edged unless otherwise noted. Counter tops with sinks shall be fully formed and have a no-drip edge, and covered splash joint. All counter tops shall have a back and side splash unless otherwise noted. Sinks shall have a sanitary metal rim or be a self-rim stainless steel sink. Other materials may be submitted to the State for approval.
- E. Shelving units shall be a minimum of 3/4" thick white melamine, per AWS. Cover exposed edges with plastic laminate or hardwood edgebound.
- F. Face of millwork shall be high-pressure decorative plastic laminate. NEMA LD-3 grades as required by AWS.

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- G. Lessor shall provide cabinet hardware such as, but not limited to concealed hinges, pulls, catches, shelf rests, standards and brackets, and drawer slides. All hardware shall comply with ANSI A156.9-01 and Builders Hardware Manufacturers Association.
  - H. All millwork shall be installed in accordance with all seismic safety requirements of the Code.
  - I. Base Cabinets containing sinks shall be CBC/ADA/ access compliant. Unless otherwise noted, Lessor shall provide cabinet doors with attached toe kicks with rubber base to conceal clear space below.
- 2.9 GYPSUM BOARD FINISH / PAINTING / WALLCOVERING / SEALANTS
- A. Gypsum board finish shall be a smooth, blemish-free, monolithic surface and free of tool marks and ridges. Heavy textured wall surfaces are not acceptable.
  - B. Water-based paints shall not be formulated with aromatic hydrocarbons, formaldehyde, halogenated solvents, mercury or mercury compounds, or tinted with pigments of lead, cadmium, chromium VI, antimony and their oxides. All architectural paints and coatings shall comply with VOC limits of the California Green Standards Code unless more stringent local limits apply.
  - C. All wall texture and paint colors shall be selected and or approved by DGS.
  - D. New Surfaces:
    - 1. New partitions without factory finish shall be painted with one coat of primer/sealer and two finish coats of premium quality latex, eggshell paint. Flat paint is not acceptable.
    - 2. Breakrooms, toiletrooms, and janitorial closets shall be painted with semi-gloss enamel paint.
    - 3. Paint-grade doors and trim shall be latex semi-gloss enamel paint.
    - 4. Stained or natural finish wood shall be finished with sealer and two coats lacquer. They shall be finished using non-toxic, water-based urethanes or similar environmentally sensitive products.
  - E. Existing Surfaces:
    - 1. Interior walls and plaster or gypsum board ceilings shall be finished in latex eggshell paint.
    - 2. Heavy textured walls shall be sanded smooth and prepared for a new paint finish.
    - 3. Existing wall coverings shall be removed unless otherwise noted, wall surface shall be prepared, and receive a new paint finish.
    - 4. Doors and frames shall be refinished to provide a new looking appearance.
    - 5. HVAC registers and grilles shall be in a newly painted condition.
    - 6. Stained or natural finished wood shall be refinished with sealer and lacquer.
    - 7. Metal toilet stall partitions shall be repainted using electrostatic paint process.
  - F. Where alteration work occurs, new painted surfaces shall extend to the natural break.

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- G. Where wall covering is specified, the product shall be 'breathable' to prevent mold and bacteria development. All adhesives used shall be non-toxic, low in VOC emissions, and shall be as recommended by the wall-covering manufacturer.
- H. Interior sealants shall not contain mercury, butyl rubber, neoprene, SBR (styrene butadiene rubber), nitride, aromatic solvents (organic solvent with a benzene ring in its molecular structure), fibrous talc or asbestos, formaldehyde, halogenated solvents, lead, cadmium, hexavalent chromium, or their components.

**2.10 BUILDING SPECIALTIES**

- A. Toilet Room Partitions and Accessories: In addition to any Code required toilet room accessories, Lessor shall furnish, install, maintain, and replenish where appropriate, the following accessories:
  - 1. Coin-operated sanitary napkin dispenser (one per women's toilet room)
  - 2. Folding utility shelf and coat hook(one per toilet stall)
  - 3. Mirror with metal frame assembly (one per lavatory, two or more lavatories may have one continuous mirror)
  - 4. Paper towel dispensers (one per every two lavatories)
  - 5. Sanitary napkin waste receptacle (one per women's toilet stall)
  - 6. Soap dispensers (one per lavatory)
  - 7. Toilet paper dispenser, continuous toilet-paper flow, capable of holding two rolls (one per toilet stall)
  - 8. Toilet seat-cover dispenser (one per toilet stall)
  - 9. Trash receptacles (one per toilet room)
- B. All accessories shall be constructed of stainless steel and exposed surfaces shall have satin finish.
- C. Toilet Room Partitions -- New toilet stall partitions shall match building standard.
  - 1. Lessor shall furnish and install privacy screen at all urinal locations – screens shall match toilet partitions.
- D. Paper Towel and Soap Dispensers:
  - 1. Where sinks and lavatories are provided for State's exclusive use, Lessor shall provide, install, and replenish paper towel and soap dispensers. Dispensers shall be constructed of stainless steel and exposed surfaces shall have satin finish.
- E. Window Treatment:
  - 1. Lessor shall provide and install horizontal or vertical window blinds or other DGS approved device for privacy to all windows and interior glazed openings, including interior door side-lites.
  - 2. At sun-exposed areas, Lessor shall provide and install solar screens, reflective glass coatings, reflective glass panes, or other State and Lessor approved device for sun control.
- F. Knox Box:
  - 1. Where State occupies an entire building, Lessor shall furnish and install a Knox Box near building entrance as directed by Fire Department.
- G. Signage:
  - 1. Lessor shall provide and install room identification signage for all rooms.

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2. Lessor shall verify signage content, room number designation, and submit mock-ups of signage types to DGS for review and approval prior to fabrication.
  3. All signage located within the State's premises shall be tactile identification signage with raised letters and raised numbers between 5/8" and 2" high with a width-to-height ratio of between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10. Letters shall be raised 1/32" above the background, Sans Serif uppercase characters. Signage shall be installed 60" A.F.F. to centerline of sign. Signage for all private offices shall have a clear 3" – 4" high x 6" wide x 1/16" thick non-glare lens slide-out.
    - a. Characters and background of signage shall be eggshell, matt, or other non-glare finish. Characters shall contrast with their background.
  4. Grade 2 California Braille dots shall be raised 1/40" above the background. Braille shall be 1/10th inch on center within each cell and 2/10th inch between cells. Braille dots shall be domed or rounded
  5. In addition to room identification signage, Lessor shall provide and install tactile exit signs and tactile exit route signs.
  6. Where signs are mounted on glass, such as sidelights, furnish and install a blank of equal material, width, height, and background color to the opposite side of said glass.
  7. State of California Identification:
    - a. On or near the suite entrance door, install the words "STATE OF CALIFORNIA", the name of State tenant/ Department/ Agency and suite numbers and shall include Braille and tactile text and numbering. Signage shall be building standard and subject to approval by the State. Painted or pressure sensitive vinyl letters are not acceptable. Provide agency identification in the building directory, where available.
  8. Lessor shall provide 'Maximum Occupancy' signage(s) on the wall above or near the entry door for all conference, meeting, lunch, auditorium, and assembly rooms.
  9. Exterior signs: (applicable only if building is totally occupied by the State) Lessor shall provide and install exterior signs. Letters shall be of cast aluminum alloy, bronze, black anodized finish, dimensional plastic. Submit samples to DGS for approval. The words "STATE OF CALIFORNIA" and the name of the occupying department, and street address shall be in scale with the building elevation.
    - a. Lessor shall be solely responsible for any additional permits and fees.
- H. Assistive Listening Devices:
1. Lessor shall provide an assistive listening device system for all meeting, conference, quiet, assembly, and gathering rooms. The system shall comply with all accessibility requirements.
  2. Occupant Load less than 50:
    - a. One portable system per floor can be shared between rooms with occupant loads less than 50. The system shall be designed to accommodate the largest room size that is being shared. The portable, wireless FM based system shall include high output acoustic headset(s) such as the Centrum Motiva PFM 360 (or current model) with disposable ear plugs, neck-loop(s), conference microphones and a

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lockable charger/accessory carry case large enough to hold all equipment. The system shall be hearing aid compatible. Lessor shall provide signage at reception area indicating that the device is available.

3. Occupant Load of 50 or more:
  - a. Rooms with more than 50 person occupant load and fixed seating must have a fixed assistive listening device system for 4% of the total number of seats in these rooms, but not less than two. Lessor shall provide signage inside each room and in the common hallway and or corridor indicating that the device is available.

I. Modular Systems Furniture (MSF):

1. The State may elect to furnish and install MSF in lieu of traditional office furniture. MSF may be comprised of any combination of freestanding partition panels, panel supported worksurfaces, files, components, and access raceways.
2. Where State elects to install MSF as described above, Lessor, at Lessor's sole cost and expense, shall provide the following:
  - a. Obtain any required permits from the local jurisdiction.
  - b. Electrical engineering and installation of all wiring systems and components as necessary or required from the building's electrical system to the MSF for a complete and fully operational system.
  - c. Provide a minimum of four 20A circuits to each base feed and/or power pole feed. Each 20A circuit shall serve a maximum of four workstations. Coordinate electrical junction box locations with State furnished MSF plans. See Division 3 Special Provisions for MSF wiring diagram.
  - d. Installation of voice and data communication cabling from the data communication closet to the final point of termination at the MSF panel.
  - e. Cut and assemble the supplied power pole to the appropriate length, insert pole into top trim of panel, align the pole true and plumb, seismically brace pole, cutting the correct size hole in the ceiling tile, routing the electrical conduit through the pole, and installing the ceiling escutcheon plate to complete the pole installation.
  - f. Coordinate the installation of new wall mounted equipment to prevent interference with the MSF such as electrical panels, lighting control switching, thermostats, and fire extinguisher cabinets.
  - g. Relocate any existing wall-mounted equipment as required to accommodate MSF.
  - h. State or its representative shall provide MSF layout drawing(s) to Lessor for use in the preparation of construction documents.
  - i. State shall complete all procurement procedures for purchase of MSF.
  - j. In the event that the Lessor fails to complete the required construction, improvements, and/or alterations prior to the scheduled MSF delivery date, Lessor, at Lessor's sole cost and expense shall be responsible for all additional shipping, handling, and storage fees, including any "overtime" labor costs.
  - k. Where the State utilizes MSF, and the existing floor coverings are to be replaced as defined in the lease exhibits, Lessor, at Lessor sole cost and expense shall lift the existing MSF and disconnect as necessary, all power, voice, and data cabling. The MSF shall be lifted using a MSF lift

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system as recommended by the MSF manufacturer. Upon completion of the installation of floor coverings, Lessor shall reconnect all power, voice, and data cabling and lower the MSF into place. Lessor shall realign and adjust the MSF to its original location and condition. Prior to lifting or moving the MSF, Lessor shall perform an inspection with State representatives and contractor to observe and document the condition of the MSF. In the event the MSF is damaged during the performance of any tenant improvement work, Lessor, at Lessor's sole cost and expense shall repair and/or replace the MSF with approved equal product. MSF manufacturer's authorized installers shall perform all repair work.

J. Flagpoles:

1. Where State is the sole or major tenant of the building, (occupying more than 50% of the available space), the United States flag and California State flag shall be prominently displayed upon or in front of the building or grounds in conformance with all flag displaying protocols and etiquettes.
  - a. Lessor shall furnish and install the flagpole and flags.
  - b. Freestanding flagpole shall extend 30' above grade.
  - c. Flagpoles mounted to building shall extend 14' above building parapet.
  - d. Flagpoles shall be equipped with lockable halyard box.
  - e. Flagpole and halyard shall be CBC/ADA access compliant.
  - f. Flags shall be in scale with building and flagpole.
  - g. Lessor shall provide automatic lighting for nighttime illumination.

2.11 PLUMBING

- A. Lessor shall furnish and install plumbing fixtures in quantity and type as shown in Exhibit "A" and as required by Code. Where State occupies multiple floors, Lessor shall provide accessible toilet rooms on each floor. Lessor shall provide one or more drinking fountains within close proximity to office quarters or as indicated on plan. Drinking fountains shall be CBC/ADA access compliant.
- B. Lessor shall provide hot and cold water at each lavatory and sink. Domestic water heaters shall be located not more than 25 feet from furthest point of use unless a hot water recirculation or other temperature maintenance system is provided. Water heaters shall initially delivery water at 110° F.
- C. Where new toilet rooms, locker rooms with showers, shower rooms are provided and where shown on plans, Lessor shall provide floor drains.
- D. Domestic water supply systems shall be constructed with copper piping and tubing. Soldered connections on water supply lines shall use ASTM B32, Tin Antimony solder. Lead solder is not permitted.

2.12 HEATING, VENTILATING, AND AIR CONDITIONING

- A. Lessor shall provide a climate control system consisting of a fully automatic heating, ventilating, and air conditioning system capable of providing conditioned air continuously during occupied hours to the premises. The HVAC system shall be designed and capable of maintaining the following temperatures in all occupied areas:

<u>Design Criteria</u>	<u>Operating Criteria</u>
Winter: 76°F	Winter: 68°F

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Summer: 72°F

Summer: 78°F

- B. Lessor shall provide and install thermostats with automatic change over from heating to cooling. Thermostats shall have dead-band with adjustable range where no heating or cooling is activated. The temperature range of the thermostats shall be minimum 55°F to 85°F. Thermostats shall be cleaned, calibrated, and initially adjusted to 68°F maximum for heating and 78°F minimum for cooling. Thermostats shall be located within each zone. In multi-tenant buildings, thermostats shall not be shared with other building tenants.
- C. Lessor shall furnish and install lockable, tamperproof covers to all thermostats within the leased premises.
- D. Lessor shall furnish and install a dedicated air conditioning system with separate thermostat for the computer room, telecommunication room, server room, and other similar spaces. The system shall be capable of providing conditioned air 24 hours per day, 7 days a week. The operating temperature shall comply with the telecommunication equipment manufacturer specifications.
- E. Lessor shall submit detailed heating and cooling calculations, Title 24 compliance information, equipment selection data, and “as-built” mechanical drawings to DGS upon request.
- F. The cooling load for conference rooms, quiet rooms, hearing rooms, public lobbies, waiting rooms, and employee break rooms shall be based on occupancy of 15 square feet per person. Cooling load for all other areas shall be based on occupancy of 100 square feet per person.
- G. Systems shall be zoned for each building exposure and for interior zones where appropriate. Each zone shall be of a size and shape to ensure even air distribution and temperature control throughout the leased premises. Each conference room, quiet room, hearing room, public lobby, waiting room, and employee break room shall be zoned separately.
- H. In multi-tenant buildings, HVAC zones shall not be shared with other building tenants.
- I. All fan systems supplying 2,000 cfm and above shall be equipped with an economizer system that will use outdoor air up to 100% of fan capacity for cooling of the premises. Operation of the economizer cycle shall be controlled by outside dry bulb air temperature.
- J. All lunchrooms and break rooms with microwave oven or other food-heating appliances shall include a general exhaust fan.
- K. Toilet rooms shall be provided with a mechanical exhaust system providing a minimum of 15 air changes per hour. Replacement air shall be supplied directly or indirectly from the building system. Individual supply ducts or sound-lined transfer ducts are acceptable. Each exhaust fan shall be interlocked with the associated HVAC unit supply fan serving the room. Exhaust air shall be ducted to the building exterior.
- L. Ductwork construction and installation shall conform to the appropriate Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) low velocity or high velocity duct construction standards. Ductwork shall be concealed or aesthetically compatible with the architectural design of the interior space. Individual supply and return air outlets and ductwork shall be provided in each enclosed area. Undercutting of doors, door grilles, or jumper ducts is not acceptable. Return air shall

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be conducted through registers connected to ductwork or plenum above ceilings, except as otherwise approved by the State.

- M. Air distribution system shall be equipped with air volume controls and shall be capable of draftless operation at an acceptable noise level while handling the design flow of air. The acceptable noise level shall comply with ASHRAE Handbook - HVAC Applications.
- N. The complete HVAC system shall be checked, adjusted, and balanced. The air balance report shall be submitted to the State upon project completion.
- O. Lessor shall provide vibration isolation supports for all mechanical equipment, piping, and ductwork to prevent transmission of vibration to building structure.
- P. Where the heating design of outdoor temperature is below 35°F, Lessor shall provide one winter night setback thermostat for each HVAC system. The thermostat shall cycle the heating system to maintain 55°F.
- Q. Lessor shall provide automatic-control time clocks (7-day-programmable) or energy management systems (microprocessors) to allow the shutoff and startup of the HVAC equipment according to the State's occupancy schedule. State shall determine maximum daily hours of operation. Lessor shall provide one-hour by-pass timers for each HVAC system for after-hours operation.
- R. Indirect evaporative cooling, desiccant dehumidification, and passive solar design measures are acceptable when approved by DGS.

**2.13 ELECTRICAL**

- A. General Electrical Requirements:
  - 1. Lessor shall provide electrical engineering and installation of all transformers, main switchboard, subpanels, branch circuits, wiring devices, electrical switching, energy management systems, lighting, receptacles, and control equipment for HVAC systems.
  - 2. Service and metering equipment shall be in accordance with utility company requirements. An Electrical Arc-Flash Hazard Analysis and Short-Circuit and Protective Device Coordination Study shall be performed based on the available fault current from the utility system and contribution from the facilities motors. Electrical equipment warning labels shall be provided based upon the available arc hazard energy at each piece of Electrical Equipment. Labels shall comply with the requirements of the California Electrical Code and NFPA 70E.
  - 3. Where electrical service panels are installed to provide service to State premises, Lessor shall provide and install panels with a minimum of 20 percent more circuit capacity than the Lessor's calculated load total.
  - 4. The electrical panels serving the State's premises shall be accessible from the building core or from within the State's quarters. The location of the panels shall be coordinated and approved by the DGS prior to installation.
  - 5. All appliances and all energy-consuming devices shall be Energy Star® certified by the Environmental Protection Agency (EPA).
- B. Power Requirements:

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1. Duplex convenience outlets shall be 20A, 125V, 3 wire grounding type provided in quantities indicated on the Exhibit "A". Lessor shall provide a minimum of two convenience outlets in each private office.
2. Electrical/data/telephone outlet heights:
  - a. Existing receptacles may remain at 12" A.F.F. New receptacles shall be installed at 15" A.F.F. or as noted on plans.
3. Lessor shall furnish and install all special use outlets, dedicated circuits, and isolated ground convenience outlets for copy machines, electronic communications equipment, and where noted on plan.
  - a. Dedicated circuits shall have individual ungrounded circuit conductors from each device to panel board circuit breaker and individual grounded circuit conductors from each device to the neutral bus located in the panel board. Equipment grounding conductors shall be connected to the grounding electrode system through a ground bus located in the panel board.

C. General Lighting Requirements:

1. Lighting Design Guidelines:
  - a. Lighting shall comply with the design guidelines of the current edition of IESNA Lighting Handbook.
2. Where existing light fixtures are reused, Lessor shall modify fixtures as necessary to comply with all seismic guidelines. Lessor shall thoroughly clean fixture housings, lamps, and fixture lenses. All lenses shall be free of damage and discolor. There shall be no visual discrepancy between existing lamp color temperature and new lamp color temperature in each enclosed space. Lessor shall replace incandescent lamp fixtures with new high efficiency lamp fixtures where applicable.
3. Premises shall have sufficient light fixtures properly spaced and be capable of providing the recommended levels of illumination indicated in the following table.
  - a. Minimum Lighting Levels:

AREA:	FOOTCANDLES:
Work Surfaces (includes task lighting)	50
Work Area Ambient Lighting	30
Telecommunications rooms and closets	50
Special Purpose Area(s)	75
Repair Garage	50
Hallways, Aisles, Corridors	25
Conference / Meeting Rooms	70
Incandescent Lighting	10 - 30
Drafting Areas	50
High Density Filing Areas	50
Document Processing Area/Room	30
Circulation Space around work areas	30
Building Entries	25
Restrooms	40
Waiting and Lounge Areas	15
Coffee Counters	20
Lunch Rooms/ Break Rooms	30
Warehouse	2

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4. Minimum requirements for new or replacement linear fluorescent lighting systems:
  - a. Minimum Color Rendering Index (CRI) of 70
  - b. Option of common Color Temperature lamps (CCT) (3000° K through 4100°K)
  - c. Minimum power factor of 90%
  - d. Minimum system efficacy of 90 lumens per watt
  - e. High frequency electronic ballast
  - f. Maximum Total Harmonic Distortion (THD) of 20%
  - g. Minimum lamp life of 20,000 hours
5. Minimum requirements for compact fluorescent lighting systems:
  - a. Minimum Color Rendering Index (CRI) of 75%
  - b. Option of common Color Temperature lamps (CCT) (2700° K through 4100°K)
  - c. Minimum power factor of 90%
  - d. Minimum system efficacy of 60 lumens per watt
  - e. Electronic ballast
  - f. Maximum Total Harmonic Distortion (THD) of 20%
  - g. Minimum lamp life of 10,000 hours
6. Minimum requirements for LED lighting systems
  - a. Minimum Color Rendering Index (CRI) of 80
  - b. Option of common Color Temperature lamps (CCT) (3000° K through 4100°K)
  - c. Minimum power factor of 90%
  - d. Minimum system efficacy of 90 lumens per watt
  - e. Internal LED Driver
  - f. Lamps capable of being dimmed from 100% to 0% of maximum lighting output
  - g. Minimum lamp life of 50,000 hours
7. Pairs of one-lamp or three-lamp recessed fluorescent luminaires and continuous mounted fluorescents that are (1) on the same switch control, (2) in the same area, (3) within 10 feet of each other in accessible ceiling spaces; and (4) do not use electronic ballasts, shall be tandem wired and shall not use single lamp ballasts.
8. Where required, lighting panel switches including exterior lighting shall have a two schedule, programmable, 7-day with holiday setting, battery-backup time clock. Time clock operation shall have manual override with a two-hour bypass. Override shall be accessible to the tenant.
9. Where exterior illumination is required, lessor shall provide and install exterior solid-state luminaires that are designed for and exclusively use LED lamp technology. Luminaires shall include integrated controls and the required Backlight, Uplight, and Glare (BUG) ratings based on the Lighting Zone the luminaires are in for accent light and outdoor building security lighting. All building entrances shall be illuminated.

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D. Communication Equipment Requirements:

1. Lessor shall provide and install all conduits and telephone service cabling from the building's main point of entry (MPOE) to the tenant agency's Telecommunication closet.
2. Lessor shall furnish and install telephone terminal backboard. Backboard shall be 4' x 8' x 3/4" thick, fire retardant plywood, and painted to match adjacent surfaces.
3. Lessor shall furnish and install termination blocks, cable management hardware, and terminate and label all cables at both ends.
4. Lessor shall provide and install all components as required by the telephone service provider's requirements.
5. Unless otherwise noted, Lessor shall furnish and install a complete structured cabling system from the tenant agency's telecommunication closet to the final point of termination. Lessor shall provide all components such as, but not limited to, cabling, cable labels, cable trays, cable management hardware, patch panels, cross connects, patch cords, faceplate, jacks, and wall outlets, MSF workstation outlets, as necessary or required for a complete and operational system.
6. Lessor shall provide and install all conduit and outlet boxes with pull-wire.
7. The system shall be tested pursuant to and meet ANSI/TIA/EIA standards.
8. BICSI Certified cabling installers shall perform all work, and shall comply with all ANSI/TIA/EIA cabling standards.
9. The system shall comply with the requirements of the tenant agency's specifications.
10. The State shall not be required to remove any communication equipment and or cabling described herein either during the lease term or upon termination of this lease.

2.14 PARKING AND PAVING

- A. Parking areas and access from the public way shall be paved. Each parking stall shall have individual unobstructed access. All stalls shall be marked with 4" wide painted stripes using white traffic grade paint. Traffic areas shall have appropriate painted directional arrows and any other graphics noted on Exhibit "A". Lessor shall furnish and install appropriate signage as required by local jurisdiction.
- B. Pavement at existing parking areas shall be free of holes, patches, divots or badly weathered surface conditions. If new material is used, the existing asphalt shall be ground and used for fill in the parking area.

**END OF DIVISION 2**

**EXHIBIT B – OUTLINE SPECIFICATIONS  
DIVISION 3**

DIVISION 3 - SPECIAL PROVISIONS

The following Special Provisions supplement the requirements specified in Divisions 1 and 2. Where Division 3 requirements conflict with Divisions 1 & 2; Division 3 supersedes those requirements.

***There are NO SPECIAL PROVISIONS for this Project.***

***END OF DIVISION 3***

**EXHIBIT B – OUTLINE SPECIFICATIONS  
DIVISION 4**

DIVISION 4 - TECHNICAL REQUIREMENTS

The following Technical Requirements supplement the requirements specified in Divisions 1 and 2. Where Division 4 requirements conflict with Divisions 1 & 2; Division 4 supersedes those requirements.

***There are NO TECHNICAL REQUIREMENTS for this Project.***

***END OF DIVISION 4***