



# CITY OF DANA POINT

## COMMUNITY DEVELOPMENT, BUILDING AND SAFETY

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PR004 - COMMERCIAL

2016 CALIFORNIA CODES

CODE CYCLE

01/01/2017

EFFECTIVE DATE

### COMMERCIAL NON COMMERCIAL PLAN REVIEW COMMENTS

REVIEW NO.: **BLD17-00**

PROJECT:

PROJECT ADDRESS:

APPLICANT:

OCCUPANCY GROUP:

TYPE OF CONSTRUCTION:

SPRINKLERS:

1<sup>st</sup> REVIEW BY:

DATE:

STATUS:

ADDITIONAL REVIEW BY:

DATE:

STATUS:

ADDITIONAL REVIEW BY:

DATE:

STATUS:

**INFORMATION:** A plan review has been performed on the referenced project for verification of conformance with construction codes adopted by the State of California and the City of Dana Point. As a result of that review, the items listed below require additional information, inclusion within the plans or calculations or revision to the plans or calculations.

Plan review fees include the initial review and one additional re-check. Additional reviews beyond the 1<sup>st</sup> re-submittal may require additional fees.

Please provide the requested information to allow completion of the plan review process and issuance of the building permits. Please provide a written response to the items listed below with an indication as to the method of resolution and the location within the plans or calculations.

**INSTRUCTIONS:** Please return *ALL* checked sets and include four (4) completed and corrected sets of plans, two (2) sets of all other required documents along and *ALL* plan review comments with their respective responses. Incomplete resubmittal may result in delayed review time and additional plans check fee.

### APPROVALS

1. The following clearances or approvals are required before a building permit can be issued:

- Planning Department
- Public Works
- Orange County Fire Authority Approval
- Health Dept. approval
- Grading and/or Rough grade release
- School District fees
- Water Utility release
- Cal/OSHA: Note on the plans that a Cal/OSHA permit is required for elevators or wheelchair lifts.

### GENERAL

1. See the plans for additional comments and clarifications. **Please return the marked-up plans with your submittal.** The comments on the checked set are part of this correction list.
2. Submitted plans and related documents are not complete; additional reviewing time may be necessary upon re-submittal. Please note that additional corrections maybe required following review of the

revised plans. Completion of the corrections and/or submittal of the revised plans do not presume approval.

3. Submit engineering calculations for vertical and lateral loads prepared by a registered Civil, Structural Engineer or Architect. Additional Structural Corrections may apply.
4. **Approved Plans and Documents Requirements:**
  - a. All sheets of the final plans shall bear the name, address, contact information, stamp (applicable for an architect/engineer) and wet signature of the person who prepared the plans. This includes: All Registered Design Professionals, Draftsman, Contractor, Homeowner/Builder, and Designer without a professional license, etc. (CBC 107.1 & California Business & Professional Code Engineers and Architect 6735, 5536)
  - b. Remove **NOT-FOR-CONSTRUCTION** from the final sets.
  - c. Please provide the design of the walls, retaining walls, pilasters, etc. shown in the landscape plans or make a note that the landscape plans are "**FOR REFERENCE**" only.
  - d. Remove alternate or multiple choice design(s) or elements from the plan. Plans must reflect the correct element.
  - e. Please note that altered plans, inked information, and whited-out plans are **NOT ACCEPTABLE**. Please revise & update the final drawings accordingly.
  - f. Provide plan sheets in a legible format suitable for scan or microfilm archival. Your sheet(s) may contain plot errors or the depictions or notes are illegible and will not reproduce correctly.
  - g. Please use a legible text size on all sheets, such as minimum of size of 0.1"; the current submittal is too small to review.
5. Provide the following with each with each set of plans:
  - a. Complete plot plan showing yard setbacks, easements, lot dimensions, distances between buildings, size of building, etc.
  - b. Fully dimensioned floor plan of each level
  - c. Fully dimensioned Roof plan
  - d. Fully dimensioned Foundation & Framing plans
  - e. Building cross sections
  - f. Building elevations; Show floor and top of roof elevations, natural and finished grade around the perimeter of the building
  - g. Architectural / life safety general notes & details
  - h. T24 Energy calculations & forms
  - i. M/E/P utility plans signed/stamped by the trade engineers
6. Provide plan sheet sets at 24" X 36" standard sheet size with a 1/4" minimum sans serif style font. Larger or smaller sheet size(s) by prior approval only. An additional fee may be required for special handling of oversized sheet sets.

#### **TITLE SHEET**

1. Provide **Building Information** on cover sheet of the plans: (CBC 107.2.1)
  - a. Full and accurate Description of the Scope-of-Work
  - b. Job address
  - c. Owner's name and contact information
  - d. Square footage of new area (for each occupancy & the total area)
  - e. Legal description (A.P.N.)
  - f. Identify all Deferred Submittals
  - g. Name, address and telephone number of person who prepared the plans.
2. Provide a **Building Code Data** Legend on the title sheet. Include the following minimum information where applicable: (CBC 107.2.1)
  - a. Occupancy Group
  - b. Type of Construction

- c. Fire-sprinkler requirements
3. On the Title:
    - a. Show justification to exceed the basic allowable floor area listed in Table 506.2
    - b. Show justification to exceed the number of stories or building height listed in Table 504.3 & 504.4
  4. Provide a complete:
    - a. **Project Description** with a complete and detailed “**Scope-of-Work**” on the cover sheet (this must include **all** elements of the project);
    - b. **Sheet Index** in accordance with the sheet numbers in the set;
  5. **Applicable Code:** Provide a statement on the title sheet of the plans that this project shall comply with the *2016 CBC, CMC, CPC, CEC, CGBSC, CEES, and The City of Dana Point Local Ordinances.*
  6. On the tile sheet, please list:
    - a. All deferred submittals
    - b. Items that are under separate permit
    - c. Deputy inspection lists
    - d. Structural observation notes

#### **DEFERRED SUBMITTAL**

1. Deferred submittals, other than fire sprinklers and structural trusses shall have written **PRIOR APPROVAL** of the Building Official. Submit a written request for a deferred submittal to the Building Official. Deferred submittals are subject to a separate review fee and permit issuance.
2. The architect or engineer of record shall list all deferred submittals on cover sheet and note on the plan: “**Deferred submittals to be reviewed by project architect or engineer of record and certified prior to submittal for plan review**”.

#### **FIRE SPRINKLERS**

1. Note the following on the cover sheet and indicate which condition applies; “**The existing building is/is not protected by an automatic sprinkler system**”
2. An automatic fire-sprinkler system is required per CBC & the DPMC (see handout *B008-FIRE* Fire Sprinkler installation requirements). Note on the cover sheet “**An Automatic Fire Sprinkler System is required**”.
3. When sprinkler increases are applied for an additional 20 feet in height or for an additional story in accordance with 504.2, sprinklers may not also be used for an area increase in 506.2 for Group A, E, H, I, L, & R Occupancies and high-rises.

#### **SITE PLAN**

1. Provide fully dimensioned site plan drawn to scale (1/8” min). Show the location, size and use of all structures and property line walls on the plan. Identify property lines, set back requirements, lot dimensions, distances from the building(s) to the property lines and bluff top set back lines (if applicable), all attached & detached structures, distances between structures, north arrow, etc.
2. Show on the site plan:
  - a. Provide building and building element setbacks
  - b. Provide North arrow and centerline of labeled street(s) and alley
  - c. Dimension distances from building(s) to all property lines, street center lines, and adjacent existing or proposed structures on the site.
  - d. Show the size, use, occupancy, and type of construction of all existing buildings on the site.

- e. Show all interior assumed lot lines, any designated flood plains, open space easements or development restricted areas.
  - f. Clearly delineate any frontage used to justify allowable area increases per CBC 506.3.
3. Note on plans: ***“Frontage used for allowable area increases per CBC Section 506.3 shall be permanently maintained”.***
  4. Note on the site plan:
    - ***Lots shall be graded to drain surface water away from foundation walls. The grade shall fall 5% for a minimum distance of 10 feet.*** (1804.4)
    - ***The discharge of pollutants to any storm drainage system is prohibited. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on construction sites or by construction activities shall be placed, conveyed or discharged into the street, gutter or storm drain system.***

#### **BUILDING OCCUPANCY & AREA ALLOWED**

1. Provide a Building Code Analysis on the title sheet. Include the following code information for each building proposed: Description of use, Occupancy, whether separated or un-separated, number of stories, type of construction, sprinklers, floor area, height, and allowable floor area.
2. When two or more buildings are on the same property and they are not analyzed to comply as one building, the building shall have an assumed property line between them for determining wall and opening protection, and roof cover requirements or treated as a single building. (CBC 705.3)
3. When a new building is constructed adjacent to an existing building, show the required wall and opening protection requirements for the existing building will be maintained. (CBC 503.1.2, 705.5, Table 601, Table 602, and 705.8, Table 705.8 )
4. For buildings with mixed occupancies, the allowable area per story shall be based on the most restrictive provisions for each occupancy when the mixed occupancies are treated according to CBC 508.3 (un-separated). If treated per CBC 508.4 (separated) the maximum total building area shall be such that the sum of the ratios for each of the actual to allowable are does not exceed 1. ( CBC 508.4.2 )

#### **FLOOR PLAN**

1. Identify and label all rooms, areas, and uses on the plans.
2. Clearly label and identify on the plans the fire-resistive corridors, fire walls, shaft enclosures, fire barriers, fire partitions, smoke barriers and smoke partitions along with their hourly ratings.
3. Provide notes and details for the following items:
  - a. Identify all occupancies and mixed uses per CBC Section 508
    - i. Incidental Uses (509)
    - ii. Mixed Occupancies (508): Accessory Occupancies (508.2), Non-separated Occupancies (508.3), Separated occupancies (508.4)
    - iii. Required Occupancy separation (Table 508.4)
  - b. Exterior walls and allowable openings. (705.8.1). Exceptions: Table 705.8
  - c. Identify all fire walls (706), fire barriers (707), shaft enclosures (713), fire partitions (708)
  - d. Horizontal Assemblies (711), Penetrations (714), Fire-resistive Joints (715), Fire-resistive rating of structural members (704)
  - e. Mezzanines. (505)
  - f. Interior wall & ceiling finish requirements by Occupancy (Table 803.11)
  - g. Special use and occupancy. (Chapter 4)
4. Indicate how mezzanine complies with area, enclosure and exit requirements [505].

5. Unenclosed openings connecting 3 or more levels qualify as atriums and shall comply with provisions of section 404 of CBC.
6. **Doors:**
  - a. Specify minimum door size – 3'-0" x 6'-8". (1010.1.1)
  - b. Provide level landing on each side of the door not more than (        " ) below the threshold. (1010.1.5)
  - c. Door swinging over landing shall not reduce the width by more than seven inches when fully open. When serving 50 or more, the door in any position shall not reduce the required width to less than one-half. CBC 1010.1.6
  - d. Doors shall swing in the direction of egress travel where serving an occupant load of 50 or more persons or a Group H occupancy. (1010.1.2.1)
  - e. Exit doors from Group A, assembly areas not classified as an A occupancy, E, I-2 and I-2.1 occupancies having an occupant load of 50 or more and any H occupancies shall not be provided with latch or lock unless it is panic hardware or fire exit hardware. (1010.1.10)
  - f. Dimension on the plan – clear length on each side of the door – on door swing side, 60" clear length with 18" jamb (24" at exterior); opposite door swing, 48" clear length. (Table 11B-404.2.4.1)
7. Provide a window and door schedule: List size and type of opening.
8. **Walking deck:** List manufacturer and ICC/ICBO number and show all materials, plywood, and nailing required. Specify 1/4 unit in 12 units (2%) slope for drainage; show method of drainage and location of discharge without crossing over property lines.
9. **Ceilings:** Detail suspended ceiling with seismic bracing and vertical compression strut, light fixtures independently supported, etc.
10. **Glazing:**
  - a. Support glass on all four sides; or submit design to the building official for approval. (2403.2)
  - b. Show location of safety glass in hazardous locations (2406) – i.e. glazing in doors (including wardrobe doors) and within 24" of the door, glazing less than 18" above the floor, in railings, enclosing stairway landings or within five feet of the bottom & top of stairways, etc.
11. Provide a note on the plans indicating if any **hazardous materials** (CBC 414) will be stored and/or used within the building, which will exceed the quantities listed in CBC Tables 307.1(1) and 307.1(2).
12. Provide separate Floor Plans identifying hazardous material quantities, types and locations prepared by a qualified person in accordance with 414.1.3 CBC.

## **FIRE-RESISTANCE RATED CONSTRUCTION**

1. Table 601, footnote d (one-hour substitution for sprinklers) has been eliminated, please revisit the Type-of-Construction requirements.
2. For all walls, at or near a property line, provide a complete wall section from the foundation to the roof and locate the property line on the cross section. (107.2.4)
3. **Exterior Walls:**
  - a. The maximum area of unprotected or protected openings permitted in an exterior wall in any story shall not exceed the values in Table 705.5. Where both unprotected and protected openings are located in the exterior wall in any story, verify compliance with equation 7-2 of CBC 705.8.4. Opening protection is not required where the building is equipped throughout with an automatic sprinkler system in accordance with Section 9-3.3.1.1 and the exterior openings

are protected by a water curtain using automatic sprinklers approved for that use. 705.8.2  
Exception

- b. Provide  $\frac{3}{4}$  hour opening assembly rating for exterior walls required to be 1-hour fire rated and 1  $\frac{1}{2}$  hour openings assembly rating for exterior walls greater than a 1-hour fire rating. Table 716.5
  - c. Specify that exterior walls shall have no openings when closer than a feet fire separation distance. Openings include windows, doors, scuppers, vents, etc. (Table 705.8)
  - d. Projections beyond the exterior wall shall not extend more than 12 inches into the area where openings are prohibited nor beyond a point one-third the distance to the lot line from an assumed vertical plane located where protected openings are required. (705.2)
4. Clearly identify the locations of the **Fire Areas, Fire Walls, Fire Barriers and Fire Partitions** on the plans. Provide complete legends and details
5. **Fire Walls** (706): Provide details showing:
- a. Fire Rating shall be per Table 706.4.
  - b. Fire walls must remain structurally stable in the event of collapse of construction on either side during a fire. (706.2)
  - c. Provide a detail to show that joist supported by the fire wall is spliced and not continuous (plywood membrane may be continuous), or provide double fire walls or provide justification for any other method used. (706.2)
  - d. Shall be noncombustible material, except in Type V construction per 706.3
  - e. Shall have horizontal continuity per 706.5
  - f. Shall extend vertically from the foundation to a point 30 inches above the roof per 706.6
  - g. The area of each opening in Fire Walls is limited to 156 sf. Total width of the openings is limited to 25 percent of the wall length in the story under consideration. (706.8)
  - h. All openings in fire walls shall be protected with fire assemblies having a fire-resistive rating of (1-1/2) (3) hours. (Table 716.5)
  - i. Ducts and air transfer openings through Fire Walls should be avoided. If allowed, duct and air transfer opening penetrations shall be protected as required in Section 712 and 716. Dampers are required. (706.11)
  - j. Exits must be provided independently for each area bounded by fire walls except for horizontal exits per section 1026.1
  - k. Fire Walls shall be continuous from exterior wall to exterior wall and shall extend 18" beyond the exterior surface of exterior walls. The fire wall shall be permitted to terminate at the interior surface of noncombustible exterior sheathing where the building on each side of the fire wall is sprinklered. (706.5. Exception 3 )
  - l. Fire Walls shall extend to the outer edge of horizontal projections (balconies, roof overhangs, canopies marquees and architectural projections) that are within 4 feet of the fire wall. See section 706.5.2 for exceptions.
  - m. Fire Walls shall extend from the foundation to a termination point at least 30 inches above both adjacent roofs. See section 706.6 for exceptions.
  - n. Openings through a (3) (2) hour Fire Walls shall be protected with a (3) (1  $\frac{1}{2}$ ) hour fire door assembly. Windows are not permitted in fire walls. (Table 716.5)
  - o. Fire Wall cannot create a separate building for the purpose of automatic fire sprinkler system requirements as set forth in chapter 9, unless the fire wall is 4- hours w/ no openings (706) As modified by the Fire Department
6. **Fire Barriers** (707): Provide a Fire Barrier in accordance with 707 CBC for the:
- a. Shaft enclosure per 713.4
  - b. Exit enclosure per 1023.1
  - c. Exit passageway per 1024.3
  - d. Horizontal exit per 1026.1
  - e. Atrium per 404.6
  - f. Incidental use area per 509
  - g. Control areas per 414.2.4

- h. Occupancy separation per 508.4
  - i. Fire area separation per 707.3.10
  - j. Fire Barriers shall be used for shaft enclosures, exit enclosures, exit passageways, horizontal exits, separation of mixed occupancies and incidental use areas. (707.3)
  - k. Openings shall be limited to a maximum width or 25 percent of the length of the wall with a maximum area of any single opening of 156 sq ft. (707.6)
  - l. Structural system supporting Fire Barriers shall have an equivalent fire-resistive construction. (707.5.1)
  - m. The Fire Barrier or Horizontal Assembly, or both, separating a single occupancy into different fire areas shall have a fire resistance rating of not less than that indicated in Table 707.3.10
  - n. Fire Barriers shall extend through under-floor, attic areas, and suspended ceiling areas including areas where fire-resistive ceilings are provided. (707.5)
7. **Fire Partitions** (708): Fire partitions shall be used for walls separating dwelling units, corridor walls and elevator lobby separation. Provide a Fire Partition in accordance with 709.1 for:
- a. Walls separating dwelling units (420.2)
  - b. Walls separating sleeping units in R-1 hotels, R-2's and I-1's (420.2)
  - c. Walls between mall tenant spaces (402.4.2.1)
  - d. The corridor per 1020.1
  - e. The elevator lobby per 3006.3
8. Detail how fire resistance of wall construction is maintained at built-in wall fixtures and behind mailboxes, fire extinguisher cabinets, electric panels exceeding 16 square inches in area, etc. (714)
9. Fire rated assemblies shall be per Table 721.1(2), generic assemblies of Gypsum Handbook, or have ICC approval.
10. Occupancy separation is required in Group B and M when storage area exceed 10 percent of floor area, or exceeds 3000 square feet with sprinklers or exceeds 1000 square feet without sprinklers. CBC Table 506.2, footnote b. (508.2.3)

## SPECIAL HAZARD REQUIREMENTS

### 1. Fire sprinklers:

- a. **New buildings:** In addition to the requirements of section 903.2.1 through 903.2.13, approved automatic sprinkler systems in new buildings and structures shall be provided as follows (Note: For the purposes of this section, fire walls shall not define separate buildings.):
    - i. Throughout all Groups A, I, E, and H Occupancies.
    - ii. Throughout all Group B, F, M, and S Occupancies exceeding 1,000 square feet.
    - iii. Throughout all Group U Occupancies exceeding 6,000 square feet.
  - b. **Existing Building - Alteration:** When the floor area of the Alteration within any two-year period exceeds 75% of area of the existing structure and the alteration includes structural modifications other than seismic upgrade.
  - c. **Existing Building - Addition:** Sprinkler protection shall be provided throughout the entire building when:
    - i. Existing building less than 5,000 ft<sup>2</sup>: where 20% or more is added and the gross floor area exceeds 5,000 square feet.
    - ii. Existing building equal or greater than 5,000 ft<sup>2</sup>: where more than 1,000 ft<sup>2</sup> is added.
    - iii. The existing building has fire sprinklers installed.
2. **Smoke and fire dampers:** Smoke and fire dampers must be installed in the following locations: (717.5)
- a. Duct penetrations of fire walls in accordance to section 716.5.1
  - b. Duct penetrations of fire barriers, except exit enclosures and exit passageways where they are not allowed to penetrate. (717.5.2)

- c. Ducts penetrating shafts. (717.5.3)
  - d. Ducts penetrating fire partitions and fire-rated corridor walls. See exception for steel ducts with no openings into corridor (717.5.4)
  - e. Ducts penetrating smoke barriers. (717.5.5)
  - f. Ducts penetrating horizontal assemblies. (717.6)
3. **Fire dampers, smoke dampers**, combination fire/smoke dampers and ceiling radiation dampers shall be provided at the locations prescribed in Sections 717.5.1 through 717.5.7 and 717.6. Where an assembly is required to have fire dampers and smoke dampers, combination fire/smoke dampers or a fire damper and a smoke damper shall be shown with the applicable rating on the mechanical plans.
  4. **Fire-blocking** (718.2.2 through 718.2.7): In combustible construction, fire-blocking shall be installed to cut off concealed draft openings (both vertical and horizontal) and shall form an effective barrier between floors, between a top story and a roof or attic space. Provide details on plans or complete notes on the drawings.
    - a. In concealed spaces of stud walls and partitions, including furred spaces, at the ceiling and floor levels.
    - b. In concealed spaces of stud walls and partitions, including furred spaces, at 10-foot intervals along the length of the wall.
    - c. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.
    - d. In concealed spaces between stair stringers at the top and bottom of the run.
    - e. In openings around vents, pipes, ducts, chimneys, fireplaces and similar openings which afford a passage for fire at ceiling and floor levels, with materials tested for the form and manner they are intended.
  5. Provide approved protection details for through penetrations of fire-resistive assemblies [714.3.1.1, 714.3.1.2]. Also, provide a note on the plans stating: "Penetrations of fire-resistive walls, floor-ceilings and roof ceilings shall be protected as required in CBC Section 714.
  6. Penetrations in walls requiring protected openings must be fire-stopped with an approved material in accordance with Section 714.2.
  7. Prescriptive Fire Resistance. (721.1) & Table 721.1 (1)(2)(3)
  8. **Rubbish and linen chutes** shall terminate in rooms separated from the remainder of the building by an occupancy separation having a fire resistance of (1)-hour. Openings into chutes and chute termination rooms shall not be located in corridors or stairways. (713.13)
  9. Show **draft stop** location on plans. Also, provide these notes on the plans:
    - a. In buildings used for other than residential occupancies, draft stops must be installed in wood frame floor construction containing concealed space. Such draft stops must be installed so that the area of the concealed space does not exceed (1000) square feet (718.3.3).
    - b. In buildings used for other than residential occupancies, draft stops must be installed in the attic (mansards) (overhangs) (false fronts set out from walls) (similar concealed spaces) formed by combustible construction. Such draft stops must be installed so that the area of the concealed space does not exceed (3000) square feet (718.4.3).
    - c. Draft-stopping materials must not be less than ½-inch gypsum board, 3/8-inch plywood, 3/8-inch particle board or other materials approved by the building division. Draft-stopping must be adequately supported. (718.3.1)
  10. Draft stops shall be provided within attics, mansards, overhangs and similar concealed spaces formed of combustible construction, unless the building is sprinklered with NFPA13 sprinkler system (3000 sf between draft stops) (718.4.3)



11. **Draft stop** shall be provided within a concealed floor-ceiling assembly formed of combustible construction, unless the building is sprinklered with NFPA 13 sprinkler system (1000 sf between draft stops) (718.3.2 & 3) see exceptions 1 & 2
12. Provide **smoke and heat venting** in F-1 or S-1 occupancies with undivided floor areas greater than 50,000 sq. Ft CBC 910.2.1 with exceptions. Skylights do not meet vent standards unless specifically tested and labeled.

## **MEANS OF EGRESS**

1. Egress: Provide an egress plan showing all exit signage on approved building plans.
2. **Exit Plan** (1001.1): Submit an Exit Plan that labels and clearly shows compliance with all required egress features such as, but not limited to:
  - a. Number of occupants & total width of egress requirements
  - b. Required number of exits
  - c. Location of means of egress elements
  - d. Fire-resistance-rated construction
  - e. Component design
  - f. Hardware
  - g. Lighting & signage
3. Show detailed summary of the floor area and all deductions (is used) for Gross and/or Net floor area. (1004.1)
4. The total width of means of egress in inches shall not be less than the total occupant load served by the means of egress multiplied 0.3 inches per occupant for stairways and 0.2 inches per occupant for other egress components. (1005.3) (1005.3.1) (1005.3.2)
5. No point in the building shall exceed the distances in Table 1017.2 from an exterior exit, horizontal exit, enclosed stairway, exit passageway, exterior exit stair or ramp measured along the path of travel. The travel distance shall include travel within unenclosed stairways. (1017.2) Note: Travel distance and common path of egress travel each share the same starting point.
6. Exit through intervening rooms shall comply with CBC Section 1016.2 provisions. 1004.1.1.1
7. Exit doors must swing in the direction of egress when serving an occupant load of 50 or more. (1010.1.2.1)
8. Plans must specify exit doors are openable from the inside without the use of a key, special knowledge or effort. (1010.1.9)
9. Every required exit doorway must be of a size to permit the installation of a 3'-0" by 6'-8" door. A minimum clear width of 32 inches must be provided. (1010.1.1)
10. Plans must indicate the floor or landing on each side of doors is not more than ½ inch lower than the threshold of the doorway. (1010.1.7)
11. Landings must have a width not less than the width of the stairway, or the width of the door, whichever is greater. Doors in the fully open position must not reduce a required dimension by more than 7 inches. With an occupant load of 50 or more, doors in any position must not reduce the landing dimension to less than half its required width. (1010.1.6)
12. Enclosed exit access "Corridor" shall be enclosed with 1-hr enclosure in non-sprinklered buildings. CBC Table 1020.1

- a. Enclosure walls to be one hour fire partitions and doors to be 20 min. rated with automatic closer and self-latching hardware.
  - b. Provide a section through rated corridor fire partition (And lid if tunnel corridor)
  - c. Provide a door schedule and specify hardware for each door.
  - d. Corridor door(s) # to be 20 minutes rated with smoke and draft protection and automatic closer CBC 715.4.3
  - e. Fixed windows in corridor fire partitions to be ASTM E 199 or UL263 (1018.1, 709.6, & 715.2)
  - f. Corridors must have a minimum width of 44 inches (where it serves 50 or more persons) & 36 inches (where it serves less than 50 persons). (1024.2)
13. Except for groups A, B, F, M, S, U occupancies located in sprinklered buildings, walls and ceilings of corridors must be of one- hour fire-resistive construction. Provide architectural section through the corridor to show how this is accomplished. (Table 1020.1)
  14. Except when only one exit is required provide exit signs complying with Sections 1013 for the exit sign graphics, illumination and power source.
  15. Multiple means of egress (including stairs) shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. (1005.5)
  16. Limit dead ends in hallways/corridors to not more than 20' (50' in sprinklered buildings) when more than one exit access is required. (1020.4)
  17. All occupants shall have access to two exits from the floor. CBC Tables 1006.2.1 Exceptions:
    - a. Single story building with maximum occupant load of 49 and less than 75 ft travel distance to exit. Table 1006.3.2.(2)
    - b. Two story building with maximum occupant load of 30 occupants per floor and maximum travel distance of 75 ft to exit. Table 1006.3.2(2)
  18. Two exit access doors are required from an office tenant space when the occupant load exceeds 49. (Table 1006.2.1)
  19. Exit access doorways and exits from floor shall be separated by a distance equal to or greater than 1/2 the diagonal of the suite or floor respectively in non-sprinklered building CBC 1007.1.1 The minimum separation between required exit access doors or exits shall be equal or greater than 1/3 of the diagonal of the space or floor it serves in sprinklered buildings. (CBC 1007.1.1 Exp. 2)
  20. When more than one exit or exit access doorway is required, exit access shall be arranged such that there is no dead end in a corridor exceeding 20 ft. (50 ft in sprinklered building). (1020.4)
  21. Maximum **common path of travel distance** which the occupants are required to traverse before two separate and distinct path of egress travel to two exits are available shall not exceed:
    - a. 100 ft, when the occupant load is 30 or less. (1014.3 (2))
    - b. 75 ft, when the occupant load exceeds 30. (1014.3 (2))
  22. For B occupancy, the maximum travel distance to at least one exit shall be: (Table 1017.2)
    - a. 200 ft. in non-sprinklered building
    - b. 300 ft. in sprinklered building
  23. No point in the building shall exceed the distances in Table 1017.2 from an exterior exit, horizontal exit, enclosed stairway, exit passageway, exterior exit stair or ramp measured along the path of travel. The travel distance shall include travel within unenclosed stairways. (1017.2) Note: Travel distance and common path of egress travel each share the same starting point.

24. **Exit Access:** The portion of the means of egress system that leads from any occupied point in a building or structure to an exit. Comply with the following exit access requirements:
- Provide a minimum corridor width of 44" serving an occupant load of 50 or greater. (1024.2)
  - Limit projection doors when fully opened into the required corridor width a maximum of 7". Doors in any position shall not reduce the required width by more than one half of the required corridor width. (1018.3 & 1005.2) (1010.1.6)
  - Limit dead ends in hallways/corridors to not more than 20' (50' in sprinklered buildings) when more than one exit access is required. (1020.4)
  - Except in groups A, B, F, M, S, U occupancies located in sprinklered buildings, walls and ceilings of corridors must be of one-hour fire-resistive construction. Provide architectural section through the corridor to show how this is accomplished. (1024.3)
  - Provide a complete architectural section of the corridor showing all fire-resistive materials and details of construction for all floor, walls, and roof assemblies.
  - Corridor walls may terminate at the ceiling only if the ceiling is an element of a one-hour fire-resistive floor or roof system. (709.4 Exception 3)
25. **Exit:** The portion of the means of egress that provides a protected path of egress travel between the exit access and the exit discharge. Comply with the following exit requirements for the following:
- Exit stairs, exterior exit doors at level discharge, exit enclosures, exit passageways, horizontal exits, and exterior exit stairs/ramps.
  - Maintain ( ) hour fire resistive exit enclosure with ( ) hour protected openings until egress is provided from the building. (1024.5)
  - Provide a barrier in the exit enclosure to prevent accidental entry into the basement. (1023.8)
  - Maintain ( ) hour fire resistive construction for walls, floor and ceiling of exit passageways and their supporting structural elements. (1024.3)
26. **Exit Discharge:** The portion of the means of egress between the termination of an exit and a public way. Comply with the following exit discharge requirements for the following:
- Egress courts & Yards
  - Exterior balconies, stairways and ramps shall be located at least 10 feet from adjacent lot lines and from other buildings on the same lot unless the adjacent building exterior walls and openings are protected in accordance with Section 705 based on fire separation distance. (1027.5)
  - Exterior exit ramps and stairways shall be separated from the interior of the building as required in Section 1027.6. Openings shall be limited to those necessary for egress from normally occupied spaces. (1023.2)
  - All openings in the exterior wall below and within 10', measured horizontally, of an exterior exit stairway serving a building over two stories or a floor level having such openings in two or more floors below shall be protected by a fixed or self-closing fire assembly having a ¾-hour rating. (1023.7)
  - Exterior stairways shall be open on at least one side. (1027.3)
  - Where an exit court has an occupant load of 10 or more, provide not less than one-hour fire-resistive construction exit court walls for a height of 10 feet above the floor of the court when exit court is less than 10 feet in width (1028.4.2).
27. **Exterior balconies, stairways and ramps** shall be located at least 10 feet (3048 mm) from adjacent lot lines and from other buildings on the same lot unless the adjacent building exterior walls and openings are protected in accordance with Section 705 based on fire separation distance. (1027.5 & 1021.3)
28. **Balconies** used for egress purposes shall conform to the same requirements as corridors for width, headroom, dead ends and projections. (1021.1)
29. **Exterior egress balconies** shall be separated from the interior of the building by walls and opening protection as required by corridors. (1021.2)

30. **Means of egress illumination:** The means of egress, including the exit discharge, shall be illuminated at all times the building space is occupied.
- Provide means of egress lighting with emergency power back-up supply where two or more exits are required. (1008.3.2)
  - Show location of exit signs when two exits are required. Specify an alternate power source. (1013.1 & 1013.6.3)
  - Provide low level exit signs and exit path marking in corridors serving assembly occupancy and in hotels. Sign to be 6 to 8 inches above the floor and 4 inches from the door frame. (1013.7 & 1013.8)

#### **STAIRWAYS & GUARD (1009.3, 1011, 11B-504)**

- Show the following stair details:
  - Minimum 11" run & maximum 7" rise (1011.5.2).
  - The largest rise or run in a flight of stairs may not exceed the smallest by more than 3/8" (1011.5.4).
  - Minimum of 6'-8" headroom clearance at tread nosing (1011.3).
  - There shall be a floor or landing at the top and bottom of each stairway (1011.6).
  - Handrails for the length of the stairs (exception < 4 risers in an R-3 (1011.11)). The top of the handrail shall be placed not less than 34" nor more than 38" above tread nosing (1014.2).
  - Two types of Handrails: Type I and Type II with exception (1014.3).
  - Handrails shall extend horizontally at least 12" beyond the top riser and 12 inches plus the tread width beyond the nosing at the bottom (1012.6). Handrails shall return to a wall, guard or the walking surface (11B-505.10).
- Spiral stairways are permitted as a means of egress only from a space not more than 250 square feet in area and serving not more than 5 occupants (1011.10).
- Vertical rise between stairway landings is limited to 12 feet (1011.3).
- Buildings four or more stories above grade plane are required to have one stairway extended to the roof unless the roof has a slope steeper than 4 to 12 (1011.12).
- Provide guards at floor and roof openings, landings, balconies, and at open sides of stairs, which are more than 30" above grade, or floor below 1015.2). Guardrails shall be not less than 42" in height (1015.3).
- Open guards shall have intermediate rails or an ornamental pattern such that a sphere 4" in diameter cannot pass through (1015.4).
- Stairways from upper levels which extend below the level of exit discharge shall have an approved barrier to preclude exiting into such lower levels (1023.8).
- Provide stairway identification signs (1023.9).

#### **MISCELENEOUS**

- Provide detail of **skylights** to show compliance with CBC Chapter 2606 and Section 2610.1, or show on plans ICC or other approval number.
- Plastic skylights:**
  - Shall be separated from each other by not less than 4 feet. (2610.6)
  - Where exterior wall openings are required to be protected in accordance with Section 704, a skylight shall not be installed within 6 feet of such exterior wall. (2610.7)

3. **T-Bar ceiling** regulations start at CBC section 1610.16. This section references ASCE 7 13.5.6. The CBC also references ASTM E 580 with modifications enumerated in the ASCE 7 format and are stated in section 1610.16.
  - a. Standards
  - b. 2016 CBC 1616.10.16, ASCE 7, 13.5.6
  - c. ASTM E 580, ASTM C 635, and ASTM C 636:

## **ELEVATORS**

1. Elevators shall comply with the requirements of CBC Chapter 30 (1009). State amendments require a gurney-size elevator for any number of stories (11B-206.6, 11B-407).
2. Elevators opening into a corridor shall be provided with an elevator lobby at each floor containing such a corridor. The lobby shall completely separate the elevators from the corridor by fire partitions equal to the fire-resistance rating of the corridor and the required opening protection (3006 708.1).
3. For elevator lobbies show compliance per CBC Section 3006.
4. Elevator lobby is required at each floor where an elevator enclosure connects more than 2- stories, unless the provided building is sprinklered with 903.3.1.1 or 903.3.1.2 and it is not a high-rise. (708.14.1)
5. An Elevator Lobby is required in accordance with 708.14.1 when serving over three floors and for Group A, E, H, I, L, R-1, R-2 Occupancies or high-rises serving over two floors.
6. Elevators must open into lobbies that separate the elevator shaft enclosure doors from each floor by fire partitions equal to the fire resistance rating of the corridor and the required opening protection. (708.14.1)
7. A minimum of 2 areas of refuge with one at an elevator must be provided in accordance with CBC Sections 1007.1, 1007.2.1, 1007.4 and 1007.6 since your project is four or more stories above grade.

## **ROOF PLAN**

1. Show roof specifications, Specify roof covering material. All roofs shall be Class A or B roofing assemblies in accordance with chapter 15.
2. Fasteners for roof covering shall comply with sections 1507.2.7) of the California Building Code (Nails for slate shingle and clay or concrete tiles shall be corrosion resistant such as copper, brass or stainless steel).
3. Provide a minimum of 20" x 30" attic access opening. Opening shall be located in a corridor, hallway or other readily accessible location. (1209.2)
4. Provide cross ventilation for attic and enclosed rafter spaces equal to 1/150 of the area of the ventilated space. (1203.2)
5. Provide positive roof drainage (minimum 1/4" per ft) and roof drains at each low point of the roof. (1502.1)
6. Provide overflow drains or scuppers per section 1101.11.2 of the California Plumbing Code. Overflow drain shall be installed with the inlet flow line 2" above the low point of the roof, and shall not be connected to the roof drain lines. (CPC 1101.11.2.2.1).
7. Where an occupied roof has an assembly occupancy with an occupant load exceeding 100 for Group A-2 and 300 for other Group A occupancies, all floors between the occupied roof and the level of exit discharge shall be equipped with an automatic sprinkler system.

## ELEVATIONS & SECTIONS

1. Specify on elevations the proposed exterior wall finish.
2. **Exterior walls** shall provide the building with a weather-resistant exterior wall envelope. (1403.2)
3. **Projections Cornice, eave overhangs, exterior balconies and similar projections** extending beyond the exterior wall shall conform to the requirements of this section and Section 1406. Exterior (egress balconies and exterior exit stairways and ramps shall comply with Section 1021 and 1027, respectively. Projections shall not extend any closer to the line used to determine the fire separation distance than shown in Table 705.2. (705)
4. **Balconies** and similar projections of combustible construction other than fire-retardant-treated wood shall be fire-resistance rated where required by Table 601 for floor construction or shall be of Type IV construction in accordance with Section 602.4. The aggregate length shall not exceed 50% of the buildings perimeter on each floor. (1406.3) See exceptions.
5. **Ducts and air transfer openings.** Penetrations by air ducts and air transfer openings in fire-resistance rated exterior walls required to have protected openings shall comply with Section 717. (705.10)
6. Indicate two layers of Grade D paper between plywood shear panel and exterior lath. (2510.6)
7. Provide details for a corrosion-resistant weep screed on all exterior stud walls at or below the foundation plate line a minimum of 4" above grade, or 2" above paved areas. (2512.1.2)
8. Provide veneer design and installation details: thickness, anchors, backing, lintels and support systems. (Chapter 14)
9. Exterior walls, including basement walls, shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing, as described in Section 1405.4. (1403.2)".

## INTERIOR ENVIRONMENT

1. For all occupied spaces provide exterior openings for natural light (8% of floor area) per 1205.2 or artificial lighting per 1205.3. Natural ventilation (4% of floor area) or a mechanical system for all occupied spaces is also required. (1203.5 & 1203.6)
2. Required ceiling height is 7'-6" minimum and 7'-0" minimum in kitchens, bathrooms, storage rooms and laundry rooms. (1208.2)
3. Provide a hard nonabsorbent floor surface such as concrete or ceramic tile in all toilet room. (1210.2.1)
4. Foam plastics shall not be used as interior finish except as provided in Sections 803.4 (801.8)
5. When walls and ceiling are required to be fire-resistive or noncombustible, the finish material shall be applied directly against such fire-resistive or noncombustible construction or to furring strips not exceeding 1-3/4 inches. The furred space shall be filled with inorganic or Class A material or fire blocked not to exceed 8 feet in any direction. (803.13.1)
6. Hangers and assembly members of dropped ceilings below a fire rated ceiling shall be noncombustible materials except in Types III and V construction, where fire-retardant treated wood may be used. (803.13.2.1)
7. All interior wall or ceiling finishes (except Class A) less than ¼ inch thick shall be applied directly on the wall, ceiling or structure element w/o the use of furring strips unless it's a non-combustible material or it is in accordance with an approved tested assembly. (803.11.4)

8. Provide complete details and note on the plans that suspended ceilings shall comply with Section 808.1.1.1 and ASTM C-635/6.
9. Show installation, flame spread and smoke density rating of interior wall and ceiling finish. (803.1.1)

## **GARAGES & CARPORTS**

1. Maintain minimum access and parking headroom clearance of not less than 7' (406.4.1) and 8'-2" for accessible parking. (11B- 502.5)
2. Parking garages shall have an unobstructed headroom clearance of not less than 7'-0" above the finish floor to any ceiling, beam pipe or similar construction. (406.4.1)

## **TITLE 24 DISABLED ACCESS**

### **SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL**

1. Show on site plan the accessible route from site arrival points including public sidewalks and parking facilities to the building entrance(s). Show all grade slopes and elevation changes, ramps, etc. (11B-206.2.1)
2. Provide detectable warnings 36" wide where a walk crosses or adjoins a vehicular way and the walking surface is not separated by curbs, railing or other approved elements at the following locations: (11B-247.1.2.5).
  - a. Detectable warnings (truncated domes) shall be provided where the ramp terminates at the accessible vehicular way. The truncated domes shall measure 36 inches in depth and extend to within 6 inches of each side of the ramp landing. (11B- 247.1.2.5, 11B-705.1.2.5)
  - b. Domes shall measure between 0.9 inches (22.9mm) and 0.92 inches (23.4mm) in diameter at the base, and between 0.45 inches (11.4mm) and 0.47 inches (11.9mm) at the top. The height of the domes shall measure 0.18 inches (4.6mm) minimum and 0.22 inches (5.6mm) maximum. (11B-705.1.1.1)
  - c. Dome spacing shall measure 2.3 inches (58mm) to 2.4 inches (61mm) measured center to center. Base to base spacing shall measure 0.65 inches (16.5mm) minimum measured to the nearest adjacent dome. (11B-705.1.1.2)
  - d. Truncated domes shall be federal yellow. (11B-705.1.1.3.1)
3. Identify all path of travel features that will be altered to bring into current compliance with (11B-202.4)
4. Have accessibility features listed on form A demonstrating that up to 20% of the construction valuation within the last three years is spent improving access to the facility. Where the current published valuation threshold is exceeded and full path of travel compliance will not be met, hardship form B shall be prepared by the design professional for review by the Building Official. (11B-202.4 exception 8).

### **ACCESSIBLE PARKING FACILITIES GENERAL GENERAL**

1. Based on the number of parking spaces serving the premises, show compliance with accessible stalls per CBC 11B-208.2.
2. One of every six but not less than one of the accessible parking spaces shall be designed and constructed to be van accessible. (11B-208.2.4)
3. The accessible parking stalls shall be dispersed and shall be located on the shortest route to the building entrances. (11B-208.3.2)

4. In parking garages accessible parking spaces and vehicular routes serving these parking spaces shall have at least 98 inches of headroom. (11B-502.5)
5. Vertical clearance for pull up spaces and access aisles shall be 114 inches minimum. (11B-503.5)
6. Parking spaces must be located so that the disabled are not compelled to walk or wheel behind parked cars other than their own. (11B-502.7.1)

#### **PARKING SPACES**

7. The parking spaces shall measure 216 inches long and 108 inches wide. (11B-505.2)
8. The access aisles may be located on the either side of the parking stall; van access aisles shall be located on the passenger side of the vehicle. (11B-502.3.4)
9. Access aisles shall measure 216 inches long 60 inches wide; van access aisles shall be 216 inches long and 96 inches wide. (11B-502.3)
10. Passenger drop off and loading zones shall provide a vehicle space measuring 240 inches long and 96 inches wide. (11B-503.2)
11. Passenger loading zone access aisles shall be provided parallel to and extend the full length of the vehicle space on the passenger side. (11B-503.3.2)
12. Passenger loading zone access aisles shall measure at least 60 inches in width. (11B-503.3.1)
13. Access aisles shall adjoin an accessible route. (11B-502.7)
14. Wheel stops shall be provided to prevent vehicles from encroaching into the required width of walkways. (11B-502.7.2)
15. Parking spaces pull up spaces, and access aisles shall be generally level with slopes not exceeding 1:48. (11B-502.4, 11B-503.4)
16. The parking spaces shall be outlined in federal blue. (11B-502.2)

#### **PARKING SPACE MARKINGS**

17. The parking spaces shall be marked in white on blue background with a 36-inch X 36-inch International Symbol of Accessibility (ISA) located at the end and center of the parking space. (11B-502.6.4.1)
18. The access aisle shall be outlined in blue and have hatched lines spaced a maximum of 36 inches on center. (11B-502.3.3)
19. The words "**NO PARKING**" in 12-inch white letters shall be painted at the end of the access aisle. (*Except for passenger loading zones*) (11B-502.3.3)

#### **PARKING SIGNS**

20. Reflectorized signs including the ISA measuring 70 square inches and positioned at 80 inches above the ground surface as measured to the bottom of the sign shall be installed at the front of each accessible parking space. (11B-502.6)
21. The verbiage "VAN ACCESSIBLE" shall be included at the van accessible stalls. (11B-502.6)
22. The signs shall state "minimum fine \$250." (11B-502.6.2)



23. Passenger loading zones shall be identified with reflectorized sign with the ISA and stating "Passenger Loading Zone." (11B- 503.6)
24. Additional signage measuring 17" x 22" shall be installed at the parking lot entrances. The sign shall state in 1" high letters "*Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense. Towed vehicles may be reclaimed at: \_\_\_\_\_ or by telephoning \_\_\_\_\_.*" (11B-502.8)

### **EV CHARGING STATIONS**

1. Accessible, van accessible, and ambulatory charging stations shall be provided in quantities specified in Table 11B-228.3.2.1.
2. EV charging stations shall be located on an accessible route to the building entrance. (11B-812.5.1)
3. Note on plans: "Ground surfaces at EVCS shall have a maximum slope of 1:48 (2.083%)."
4. EV charging equipment shall be on an accessible route from the parking space, and operable parts shall be within reach ranges. (11B-812.5.2, 11B-812.2, and 11B-812.10.3)
5. EV spaces shall measure 216 inches long. (11B-812.6)
6. EVCS spaces shall be marked with "EV CHARGING ONLY" in 12 inch letters centered at the end of the space. (11B-812.9).
7. EV space widths shall comply as follows:
  - a. Van accessible spaces shall measure 144 inches wide.(11B-812.6.1)
  - b. Standard accessible spaces shall measure 108 inches wide. (11B-812.6.2)
  - c. Ambulatory accessible spaces shall measure 120 inches wide. (11B-812.6.3)
8. Access aisles measuring 60 inches wide for the length EV space shall be provided adjacent to the EV parking spaces. (11B- 812.7)
9. Access aisles shall be marked with hatched lines spaced at 36 inches on center between the painted border lines. (11B-812.7.2)
10. The words "**NO PARKING**" in 12-inch white letters shall be painted at the end of the access aisle. (11B-812.7.3)
11. Identification signs shall be provided where more than four EVCS are provided as follows: (11B-812.8)
  - a. At least one van accessible EVCS shall be identified where there are 5-25 total EVCS.
  - b. Van accessible and standard accessible EVCS shall be identified where there are more than 25 total EVCS.
12. Reflectorized signs including the ISA measuring 70 square inches and positioned at 80 inches above the ground surface as measured to the bottom of the sign shall be installed at the front of each accessible parking space. (11B-812.8.7)

### **RAMPS (EXTERIOR OR INTERIOR)**

1. The ramp shall have a slope not exceeding 1:12 (8.33%) and a cross slope not exceeding 1:48 (2.083%). (11B-405)
2. The ramp terminations shall be smooth and have no elevation differences exceeding 1/4 inch. (11B-405.4)

3. The ramp shall measure at least 48 inches in width. (11B-405.5)
4. The rise of any ramp or ramp segment shall not exceed 30 inches. (11B-405.6)
5. The landings shall be at least 60 inches in width. (11B-405.7.2)
6. The ramp shall have a level landing at the top extending 60 inches in the direction of upward travel, and a level landing at the bottom extending 72 inches in the direction of travel. (11B-405.7.3)
7. The midlevel landing shall measure at least 60 inches wide and 72 inches in length in the direction of downward travel. (11B-405.7.4)
8. Doors in any position shall not reduce the minimum dimension of the ramp landing to less than 42" and shall not reduce the required width by more than 3" when fully open. (11B-405.7.5)
9. The slopes of the landings shall not exceed 1:48 (2.083) in any direction. (11B-405.7.1)
10. The ramp shall have wheel guides measuring at least 2 inches in height along both sides of the ramp. (11B-405.9.2)
11. Handrails shall be provided on each side and positioned at 34 – 38 inches above the ramp surface. (11B-505.4)
12. Handrails shall extend 12 inches in the direction of travel at the top and bottom of the ramp run and terminate within 27 inches above the ground surface. The handrails shall be continuous through mid-level landing(s). (11B-505.10.1)
13. Handrails shall be 1-1/4 inches minimum to 2 inches maximum in diameter. (11B-505.7.1)

## **ENTRANCES & EXITS**

1. Every required exit doorway, which is located within an accessible path of travel, shall be of a size as to permit the installation of a door not less than 3' in width and not less than 6'-8" in height. (11B-206.4, 11B-206.5, 11B-404.2.3)

## **DOORS**

1. Latching and locking doors that are hand activated and which are in a path of travel shall be operable with a single effort by lever type hardware, by panic bars, push-pull activating bars, or other hardware designed to provide passage without requiring the ability to grasp the opening hardware. (11B-404.2.7, 1010.1.9)
2. When installed, exit doors shall be capable of opening so that the clear width of the exit is not less than 32". (11B-404.2.3)
3. Where a pair of doors is utilized, at least one of the doors shall provide a clear, unobstructed opening width of 32" with the leaf positioned at an angle of 90 degrees from its closed position. (11B-404.2.2)
4. There shall be a level and clear floor or landing on each side of a door. The level area shall have a length in the direction of door swing of at least 60" and the length opposite the direction of door swing of 48" as measured at right angles to the plane of the door in the closed position. (Table 11B-404.2.4.1)
5. The width of the level area on the side to which the door swings shall extend 24" past the strike edge of the door for exterior doors and 18" past the strike edge for interior doors. Doors recessed 8" or more require this clearance within the recessed area adjacent to the door. (Table 11B-404.2.4.1)

6. Provide clear space of 12" past strike edge of the door on the opposite side to which the door swings if the door is equipped with both a latch and a closer. (Table 11B-404.2.4.1)
7. The floor or landing shall be not more than ½" lower than the threshold of the doorway. (11B-404.2.5)
8. The bottom 10" of all doors except automatic and sliding shall have a smooth, uninterrupted surface to allow the door to be opened to a wheelchair footrest without creating a trap or hazardous condition. Where narrow frame doors are used, a 10" high smooth panel shall be installed on the push side of the door, which will allow the door be installed on the push side of the door, which will allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. (11B-404.2.10)
9. Maximum effort to operate exterior or interior doors with closers shall not exceed five pounds. This may be increased to 15 pounds for fire-rated doors. (11B-404.2.9)

## **STAIRWAYS**

1. Handrails shall extend a minimum of 12" beyond the top nosing and 12" plus the tread width beyond the bottom nosing and ends shall be returned or terminate in newel posts or safety terminals. (11B-505.10.2, 11B-505.10.3 )
2. The orientation of at least one handrail shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing, and shall not reduce the minimum required width of the stairs. (11B-505.2.1)
3. The handgrip portion of handrails shall be not less than 1-1/4" nor more than 2" in cross-sectional nominal dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top and sides) shall be uninterrupted by newel posts, other construction elements, or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Edges shall have a minimum radius of 1/8. (11-505.7.1, 11B-505.8, 11B-505.6 )
4. Interior Stairs: the upper approach and the lower tread of each stair shall be marked by a strip of clearly contrasting color at least 2" wide and not more than 4" wide placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of material that is at least as slip resistant as the other treads of the stair. (11B-504.4.1)
5. Where stairways occur outside a building, the upper approach and all treads shall be marked by a strip of clearly contrasting color at least 2" wide and not more than 4" wide placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of a material that is at least as slip-resistant as the other treads of the stair. A painted strip shall be acceptable. (11B-504.4.1)
6. Open risers are not permitted. (11B-504.3)

## **ACCESSIBLE RESTROOM**

### **Multiple Accommodation Toilet Facilities**

1. A clear space measured from the floor to a height of 27 inches (686 mm) above the floor, within the sanitary facility room, of sufficient size to inscribe a circle with a diameter not less than 60 inches (1524 mm in size). Other than the door to the accessible water closet compartment, a door, in any position, may encroach into this space by not more than 12 inches (305 mm). (11B-603.2.1, 11B-603.2.3)
2. Doors shall not swing into the clear floor space required for any fixture. (11B-603.2.3)
3. Accessible water closet compartments shall comply with the following: (11B-604.8))
  - a. The compartment shall be a minimum of 60 inches (1524 mm) wide.( 11B-604.8.1.1)

- b. If the compartment has a side-opening door, a minimum 60-inches-wide (1524 mm) and 60 inches-deep (1524 mm) clear floor space shall be provided in front of the water closet. (11B-604.8.1.1.2)
  - c. If the compartment has an end-opening door (facing the water closet), a minimum 60-inches-wide (1524 mm) and 48- inches-deep (1219 mm) clear floor space shall be provided in front of the water closet. The door shall be located in front of the clear floor space and diagonal to the water closet, with a maximum stile width of 4 inches (102 mm). (11B-604.8.1.1.2, 11B-604.8.1.2)
  - d. The water closet compartment shall be equipped with a door that has an automatic-closing device, and shall have a clear, unobstructed opening width of 32 inches (813 mm) when located at the end and 34 inches (864 mm) when located at the end and 34 inches (864 mm) when located at the side with the door positioned at an angle of 90 degrees from its closed position.(11B-604.8.1.2, 11B604.8.1.1.1, 11B-604.8.1.1.2, 11B-608.1.1.3)
  - e. Maneuvering space at the compartment door shall comply with Sections 1133B.2.4.2 and 1133B.2.4.3, except that the space immediately in front of a water closet compartment shall not be less than 48 inches (1219 mm) as measured at right angles to the compartment door in its closed position. (11B-604.8.1.2)
4. Where six or more compartments are provided within a multiple-accommodations toilet room, at least one compartment shall comply with CBC 11B604.8.2. The additional ambulatory accessible compartment shall be 35-37 inches (914 mm) wide with an outward swinging self-closing door and parallel grab bars complying with Section 11B-604.8.2.3.

#### **Single Accommodation Toilet Facilities**

- 5. Provide required accessible lavatory in compliance with Section 11B-606.
- 6. The centerline of the water closet fixture shall be 17-18 inches (457 mm) from the side wall or partition. (11B-604.2)
- 7. Clearance around a water closet shall be 60 inches minimum measured perpendicular from the side wall and 56 inches minimum measured perpendicular from the rear wall. A minimum 60 inches wide and 48 inches deep maneuvering space shall be provided in front of the water closet. (11B-604.3.1)
- 8. Water closets required to be accessible shall comply with (11B-604).
- 9. The height of accessible water closet seats shall be a minimum of 17 (432 mm) and a maximum of 19 inches (483 mm) measured to the top of a maximum 2-inch (51 mm) high toilet seat. (11B-604.4)
- 10. Grab bars for water closets not located within a compartment shall comply with Section 11B-609 and shall be provided on the side wall closest to the water closet and on the rear wall. (11B-604.5)

#### **FIXED OR BUILT-IN SEATING, TABLES & COUNTERS**

- 1. Where fixed or built-in seating, tables, or counters are provided for the public, and in general employee areas, 5% but never less than 1 must be accessible, as required in Section 11B-226.1.
- 2. If seating spaces for people in wheelchair are provided at fixed tables or counters, clear floor space complying with Section 11B-305 shall be provided. Knee and Toe clearance complying with Section 11B-306 shall be provided
- 3. If seating for people in wheelchairs is provided at fixed tables or counters, knee spaces at least 27" high, 30" wide, and 19" deep shall be provided. (11B-306.3.3 Exception 2)
- 4. The tops of tables and counters shall be 28" to 34" from the floor or ground. (11B-902.3)

5. Where check-out aisles are provided, check-out aisles complying with Section 11B-904.3 shall be provided in accordance with 11B-.227.2. Where check-out aisles serve different functions, check-out aisles complying with Section 11B-904.3 shall be provided in accordance with Table 11B-227.2 for each function. Where check-out aisles are dispersed throughout the building or facility, check-out aisles complying with Section 11B-904.3 shall be dispersed. When not all check-out aisles are accessible, accessible check-out aisles shall be identified by a sign complying with Section 11B-904.3.4 ( CBC 11B-227.2)

## **SIGNS & IDENTIFICATION**

1. New or altered signs shall be provided in accordance with Section 11B-216 and shall comply with 11B-703.
2. Tactile exit signs shall be provided at the following locations:
  - a. Primary entrances and directional signs on the accessible route and path of travel.
  - b. Each grade level exterior door shall be identified by a tactile exit with the word "**EXIT**".
  - c. Each exit access door from an interior room or area to a corridor or hallway that is required to have a visual exit sign, shall be identified by a tactile exit sign with the words: "**EXIT ROUTE**".
  - d. Each exit door that leads directly to a grade-level exterior exit by means of a stairway or ramp shall be identified by a tactile exit sign with words as appropriate.

## **DINING, BANQUET & BAR FACILITIES**

1. Accessibility shall be provided in all areas where a different type of functional activity occurs. Provide wheelchair access to all areas. (11B-206.2.5)
2. Provide seats/spaces for people using wheelchairs (at least one space for each 20 seats, with at least one space per functional area) integrated with general seating to avoid having one area specifically highlighted as the area for person with disabilities. (11B-226.2)
3. Access to disabled seating shall be provided with main aisles not less than 36" in clear width. (11B-403.5.1 Exception 4)
4. Food service aisles shall be a minimum of 36" in clear width. Tray slides shall be mounted no higher than 34" above the floor. If self-service shelves are provided, at least 50% of each type but no fewer than one must be within the reach ranges prescribed by Section 11B-308.

## **SALES FACILITIES**

1. Employees' workstations shall be located on accessible levels and shall be sized and arranged to provide access to employees in wheelchairs. (11B=206.2.4)
2. Where provided at least one sales and check-out stations shall be accessible. (11B-227.3)
3. Where fitting or dressing rooms are provided for male or female customers, patients, employees, or the general public, 5 percent, but never less than one, of dressing rooms for each type of use in each cluster of dressing rooms shall be accessible by providing the following: (11B-227.1)
4. Entry doors conforming to the requirements of Section 11B-404 and aisles leading to such doors conforming to Section 11B-402
5. Full-length mirrors at least 18" wide by 54" high, the bottom of which is no higher than 20" from the floor, and mounted in a position affording a view to a person on the bench as well as to a person in a standing position. (11B-803.6)
6. Clothing hooks shall be located within the reach ranges specified in Section 11B-305. As per Section 11B-803.5

7. A 24" by 48" bench mounted to the wall along the longer dimension of the room 17" to 19" above the floor with a clear space alongside the bench to allow a person using a wheelchair to make a parallel transfer onto the bench (11B-903). The structural strength of the bench and attachments shall comply with Section 11B-903.6

## TITLE 24

1. Print and include State Energy Forms ENV-1-6 E sheets, MECH-1, and LTG-3 on the plans. Forms must be wet signed by the person responsible for its preparation.

### CAL-GREEN (Applies to Newly Constructed Non-Residential Buildings)

#### 1. Site Development (5.106)

- a. Storm Water Pollution Prevention Plan (SWPPP) shall be implemented during construction. (5.106) Plans shall also indicate construction best management practices (BMP's) on the plans.
- b. Bicycle Parking shall indicate the locations on the plans (5.106.4) for either short-term bicycle parking (5.106.4.1) or long-term bicycle parking (5.106.4.1.2).
- c. Clean Air Vehicle Parking (5.106.5.2) shall be designated and the locations shall be identified on the plans for any combination of low-emitting, fuel efficient, and carpool / van pool vehicles as shown on Table 5.106.6.2.
  - i. Parking Stall Marking (5.106.5.2.1): "**CLEAN AIR VEHICLE**"
- d. Light Pollution Reduction (Green Code) (5.106.8) shall comply with lighting requirements in the California Energy Code, CCR, Part 6, and design interior and exterior lighting such that zero direct-beam illumination leaves the building site. Plans to meet or exceed exterior light levels and uniformity ratios for lighting zones 1-4 as defined in Chapter 10 of the California Administrative Code, using the following strategies:
  - i. Shield all exterior luminaries or use cutoff luminaries.
  - ii. Contain interior lighting within each source.
  - iii. Allow no more than .01 horizontal lumen foot-candles 15ft beyond the site.
  - iv. Contain all exterior lighting within property boundaries. (Specify types of exterior light fixtures on plans.)

#### 2. Indoor Water Use (5.303)

- a. Separate meters shall be shown on the Plumbing plans and shall be installed for the uses described in Section 503.1.1 through 503.1.3.
  - i. Buildings in excess of 50,000 square feet shall be installed with separate sub-meters as follows:
    - For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day.
    - For spaces used for laundry or cleaners, restaurants or food service, medical or dental office, laboratory, or beauty salon or barber shop projected to consume more than 100 gal/day.
  - ii. Excess consumption is for any buildings within a project or space within a building that is projected to consume more than 1,000 gal/day.
- b. For 20% Indoor Water Use Savings (5.303.3), provide a schedule of plumbing fixtures on the plans that demonstrate that the overall use of potable water within the building has been reduced by at least 20% - by either:
  - i. Specifying plumbing fixtures with reduced flow rates per Section 4.303.2; or
  - ii. Provide a water usage calculation that demonstrates a 20% reduction in building baseline water use.
    - Please show the combined flow rate of multiple showerheads serving one shower shall not exceed the maximum flow rates specified in the 20% reduction column of Table 4.303.2 on the plans.
- c. **Wastewater reduction** (5.303.4): Each building shall reduce the generation of wastewater by one of the following methods:

- i. The installation of water-conserving fixtures (A5.303.2.2 or A 5.303.2.3.1); or
- ii. Utilizing non-potable water system complying with the current California Plumbing Code or other methods described in Section A5.303.

### 3. **Outdoor Water Use (5.304)**

- a. A water budget shall be developed for landscape irrigation use based on the California Department of Water Resources Model Water Efficient Landscape Ordinance. (5.304.1) Outdoor water budget shall be provided on the plans.
- b. For new water service, separate meters or sub-meters shall be installed for indoor and outdoor water use for landscaped areas between 1,000 square feet and 5,000 square feet. (5.304.2) Separate water meters shall be identified on the Plumbing plans.
- c. Irrigation design is required to be in new non-residential construction with between 1,000 and 2,500 square feet of landscaped area (the level at which the MLO applies), install irrigation controllers and sensors which include the following criteria, and meet manufacturer's recommendations.
  - i. Automatic irrigation system controllers to be installed at the time of FINAL INSPECTION and shall comply with the following; (4304.1) (5.304.3.1)
    - Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
    - Weather-based controllers without internal rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

(Note this requirement on plans and show locations of irrigation controllers)

### 4. **Water Resistance and Moisture Management (5.407)**

- a. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 and California Energy Code Section 150, manufacturer's installation instruction, or local ordinance, whichever is more stringent. (5.407.1) Provide details of exterior walls and flashing materials on the plans.
- b. Employ moisture control measures by the following methods (5.407.2) and incorporate these design features onto the construction plans:
  - i. Sprinklers (5.407.2.1): Prevent irrigation spray on structures.
  - ii. Entries and openings (5.407.2.2): Design exterior entries and openings to prevent water intrusion into buildings
    - Use features such as overhangs and recessed, and flashing integrated with a drainage plane.
    - Use non-absorbent floor and wall finishes within at least two (2) feet around and perpendicular to such openings.

### 5. **Construction Waste Reduction, Disposal, and Recycling (5.408)**

- a. Construction waste diversion is to establish a construction waste management plan for the diverted materials, or meet local construction and demolition waste management ordinance, whichever is more stringent. (5.408.1)
- b. Construction Waste Management Plan (5.408.1.1): Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan for approval by the enforcement agency that:
  - i. Identifies the materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
  - ii. Determine if materials will be sorted on-site or mixed.
  - iii. Identifies diversion facilities where material collected will be taken.
  - iv. Specifies that the amount of materials diverted shall be calculated by weight or volume, but not by both.

- c. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.2, Item 1 through 4. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. (5.408.2.1)
- d. **Isolated jobsites** (5.408.2.2): The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries or the diversion facility.
  - i. Sample forms found in Chapter 8 may be used to assist in documenting compliance with the waste management plan.
  - ii. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (Cal Recycle).
- e. **Construction waste reduction of at least 65%** (5.408.3): Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition debris, or meet a local construction and demolition waste management ordinance, whichever is more stringent. Calculate the amount of materials diverted by weight or volume, but not by both.
- f. **Excavated soil and land clearing debris** (5.408.3): 100% of trees, stump, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycle. For a phased project, such material may be stockpiled on site until the storage site is developed.
- g. **Universal Waste** (5.408.2).

## 6. Building Maintenance and Operation (5.410)

### a. Recycling by Occupants (5.410.1)

- i. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling. (5.401.1) Note these requirements on the plans.
- ii. Provide on plans the commissioning report for all new buildings 10,000 square feet and over, building commissioning for all building systems covered by T24, Part 6, process system, and renewable energy systems that shall be included in the design and construction processes of the building project. Commissioning requirements shall include items listed in 5.410.2:
  - Owner's Project Requirements (OPR): Documented before the design phase of the project begins the OPR shall include items listed in 5.410.4.
  - Basis of Design (BOD): A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project and updated periodically to cover the systems listed in 5.410.2.2.
  - Commissioning plan: A commissioning plan describing how the project will be commissioned shall be started during the design phase of the building project and shall include items listed in 5.410.2.3.
  - Functional performance testing: This shall demonstrate the correct installation and operation of each component, system, and system-to-system interface in accordance with the approved plans and specifications. (5.410.2.4)
  - Documentation and training: A Systems Manual and Systems Operations Training are required. (5.410.2.5.1)
  - Systems Manual: The Systems Manual shall be delivered to the building owner or representative and facilities operator and shall include the items listed in (5.410.2.5.1).
  - Systems operations training: The training of the appropriate maintenance staff for each equipment type and/or system shall include items listed in (5.410.2.5.2).
  - Commissioning report: A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building projects shall be completed and provided to the owner or representative. Testing and adjusting: Testing and



adjusting of systems shall be required for buildings less than 10,000 square feet.

- Testing and adjusting: Testing and adjusting of systems shall be required for buildings less than 10,000 square feet.
  - a. Systems: Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the systems listed in (5.410.2.5)
  - b. Procedures: Perform testing and adjusting procedures in accordance with industry best practices and applicable national standards on each system.
  - c. HVAC balancing: Before a new space-conditioning system serving a building or space is operated for normal use, the system should be balanced in accordance with the procedures defined by national standards listed in (5.410.4.3.1).
  - d. Reporting: After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services. (5.410.4.4)
  - e. Operation and maintenance manual: Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.
  - f. Inspection and reports: Include a copy of all inspections verifications and reports required by the enforcing agency.

#### 7. Fireplaces (5.503)

- a. Gas fireplaces shall be direct-vent sealed combustion type. Any woodstove or pellet stove shall comply with U.S.EPA Phase II emission limits as well as South Coast Air Quality Management District (SCAQMD) rules. (5.503.1)
- b. Wood stoves shall comply with U.S.EPA New Source Performance Standards. (NSPS) (Green Code) and 5.503.1.1) Note these requirements on the plans.

#### 8. Pollutant Control (5.504)

- a. Note on the plans duct openings and other related air distribution component openings that shall be covered during construction. (5.504.3)
- b. Note on the plans all adhesives, sealants and caulks that shall be compliant with VOC and other toxic compound limits. (5.504.4.1)
- c. Note on the plans all paints, stains and other coatings that shall be compliant with VOC limits. (5.504.4.3)
- d. Note on the plans for all aerosol paints and coatings that shall be compliant with product weighted PWMIR limits for ROC and other toxic compounds. (5.504.4.3.1)
- e. Note on the plans all carpet and carpet systems that shall be compliant with VOC limits. (5.504.4.4) (i.e.: Carpet and Rug Institute's Green Label Plus Program)
- f. Documentation shall be provided to the City building inspector verifying that compliant VOC limit finish materials have been used. (5.504.4.3 and 5.504.4.6.1) Note this requirement on the plans.
- g. Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finished systems shall comply with low formaldehyde emission standards. (Green Code) (5.504.4.5) note this requirement on the plans and specify testing/approval standard on the plans. (i.e.: Resilient Floor Covering Institute [RFCI] Floor Score Program)
- h. 50% of the floor area receiving resilient flooring shall comply with the VOC-emission limits defined in the Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or be certified under the Resilient Floor Covering institute (RCFI) Floor score Program. (5.504.4.6) Note this requirement on the plans.
- i. Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into buildings and cross- contamination of regularly occupied areas.

- j. Filters. In mechanically vented buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 8. Specify type and efficiency of filters on the Mechanical plans.

**9. Indoor Air Quality and Exhaust (5.506)**

- a. Carbon dioxide (CO<sub>2</sub>) monitoring. For buildings equipped with demand control ventilation, CO<sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the current edition of the California Energy Code, CCR, Title 24, Part 6, Section 121(c). (5.506.2) Show CO<sub>2</sub> sensor on the plans.

**10. Environmental Comfort (5.507)**

- a. Acoustical control. Employ building assemblies and components with Sound Transmission Coefficient (STC) values determined in accordance with ASTM E 90 and ASTM E 413. (5.507.4) Note this requirement on the plans.
- b. Exterior noise transmission. Wall and roof-ceiling assemblies making up the building envelope shall have an STC of at least 50, and exterior windows shall have a minimum STC of 30 for any of the following building locations (Green Code) (5.507.4.1):
  - i. Within 1,000 feet of right-of-ways of freeways.
  - ii. Within 5 miles of airports serving more than 10,000 commercial jets per year.
  - iii. Where sound levels at the property line regularly exceed 65 decibels, other than occasional sound due to church bells, train horns, emergency vehicles and public warning systems.(Provide details of tested wall and roof-ceiling sound assemblies on the plans)
- c. Interior sound. Wall and floor-ceiling assemblies separating tenant spaces and public places shall have an STC at least 40. (5.504.4.2) Provide details of tested wall and floor-ceiling assemblies on the plans.

**11. Outdoor Air Quality (5.508)**

- a. Ozone depletion and greenhouse gas reduction. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Section 5.508.1 and 5.508.1.2 and shall be specified on the plans. (5.508.1)
- b. Chlorofluorocarbons (CFC's). Install HVAC, refrigeration and fire suppression equipment that do not contain CFC's shall be specified on the plans. (5.508.1.1)
- c. Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons shall be specified on the plans. (5.508.1.2)

**12. Install Training/Qualifications (702.1)**

- a. HVAC system installers are trained and certified in the proper installation of HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following and shall be noted on the plans:
  - i. State certified apprenticeship programs.
  - ii. Public utility training programs.
  - iii. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
  - iv. Programs sponsored by manufacturing organizations.
  - v. Other programs acceptable to the enforcing agency.
- b. Verification (703)
  - i. Verification of compliance with this code may include construction documents, plans specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency that show substantial conformance.
  - ii. Contractor – installer certification forms must be completed and submitted to the building inspector prior to final inspection.

**ADDITIONAL COMMENTS**

1. The comments on the checked set are part of this correction list. Please comply with all red-marks on the submitted plans. Return all sets with the completed plans. This review does not preclude additional corrections that may follow upon re-submittal.

If you have any questions about this review or any general questions, please contact me at **(949) 248-3xxx** or via email at [xxx@danapoint.org](mailto:xxx@danapoint.org).