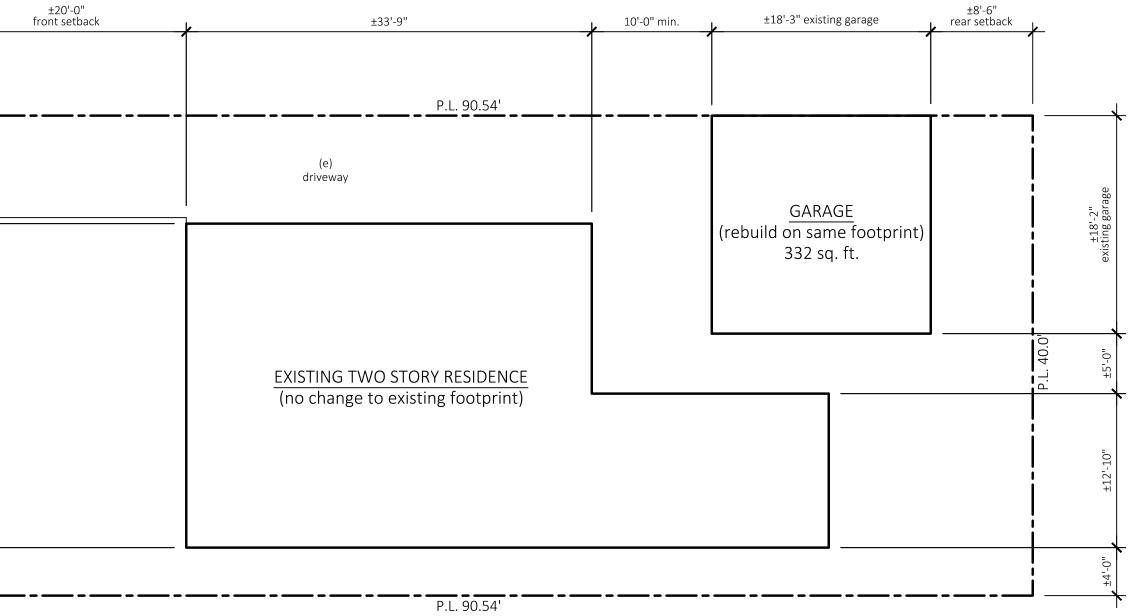


# EXHIBIT D - PLANS



SITE PLAN 1/8"=1'-0"

### NEW ONE CAR GARAGE FOR:

Correa Residence 1634 Grand Avenue Long Beach, CA 90804

LEGAL DESCRIPTION:

Tract No. 8613 S 40 ft of lots 15 and 16 M.B.: 102-22-23 A.P.N.: 7253-013-002

ZONING:

R-2-N

OCCUPANCY + TYPE OF CONSTRUCTION:

R-3/U; Type V-B 2 story residence with detached 1 car garage

SCOPE OF WORK:

New one car garage

FLOOR AREA:

NEW GARAGE

332 sq. ft.

SHEET INDEX:

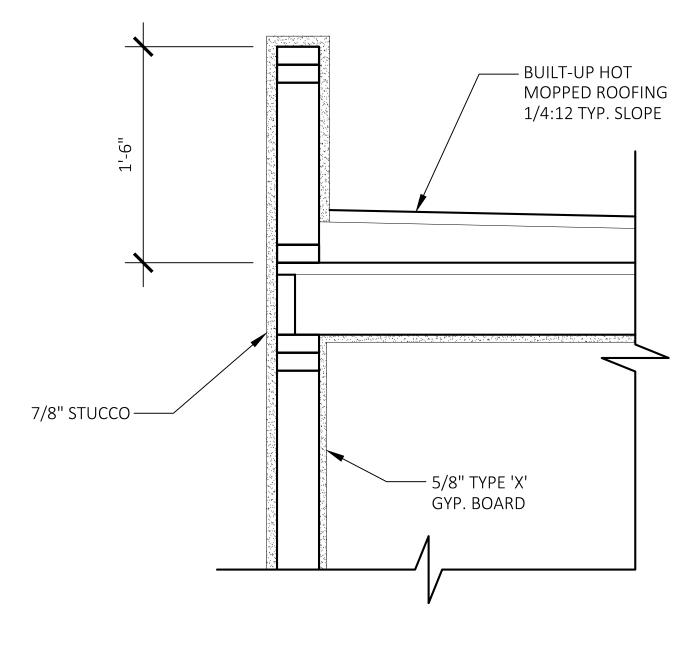
- A1 SITE PLAN + PROJECT DATA
- A2 PROPOSED FLOOR, ROOF, ELECTRICAL PLANS
- A3 ELEVATIONS + SECTIONS
- G1 GREEN BUILDING REQUIREMENTS

TOTAL SHEETS: 4

# CORREA RESIDENCE

# 1634 GRAND AVE. LONG BEACH

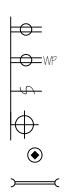
<u>Delta Issue Description</u> Nr.	Date
	ARCHITECTURE
18201 W. McDUR IRVINE, CALIFO	
© STUDIO 1:9 INC., A CALIFORNIA CORPORATIO MATERIAL HEREIN CONSTITUTE THE ORIGINAL	13-5024
ARCHITECT, AND THE SAME MAY NOT BE DUP WITHOUT THE WRITTEN CONSENT OF THE ARC	LICATED, USED, OR DISCLOSED HITECT.
Title: SITE	PLAN
Sheet: A	1



# 1-HR RATED PARAPET DETAIL

1/4"=1'-0"

### **ELECTRICAL/MECHANICAL SYMBOLS:**



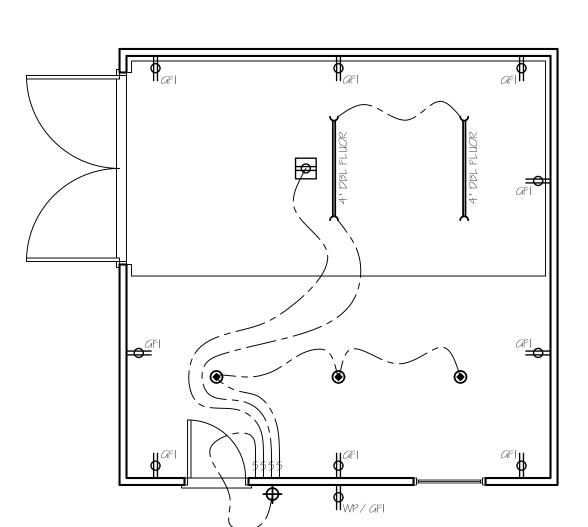
DUPLEX OUTLET WEATHERPROOF OUTLET SWITCH WALL MOUNTED JUNCTION BOX L.E.D. RECESSED CAN DOUBLE FLUORESCENT FIXTURE

### **ENERGY REQUIREMENTS:**

All luminaires shall be high-efficacy (L.E.D.) per Section 150.0 (k)1A

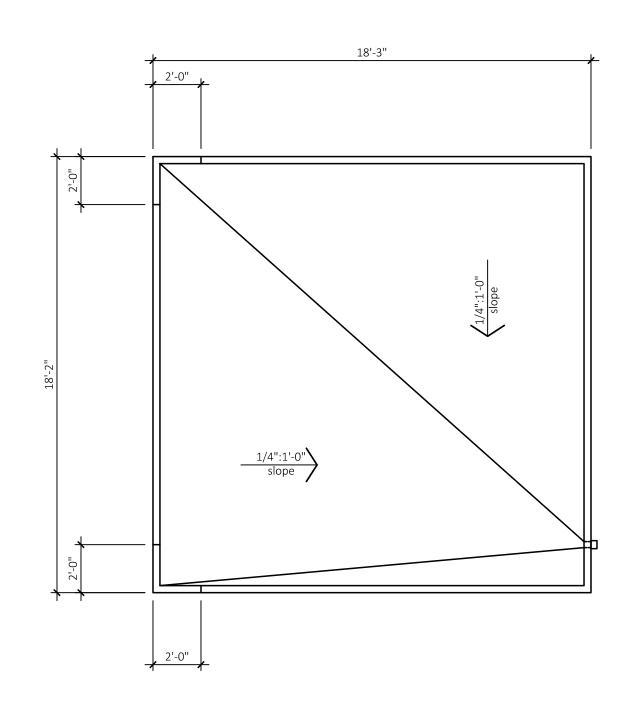
In garage, at least one luminaire shall be controlled by vacancy sensors per Section 150.0 (k)2J

Outdoor lighting attached to the building shall be controlled by a manual ON and OFF switch and by a motion sensor with integral photo control per Section 150.0 (k)3



### **ROOF PLAN NOTES:**

FLAT ROOF: Class 'A' (min) built-up hot mopped roofing 1/4:12 typical slope; GAF ROOFING ICC-ESR 1475 1 hour parapet required (7/8" stucco or wood siding over 5/8" type 'x' gyp) GUTTERS/DOWNSPOUTS: provide pricing options to owner

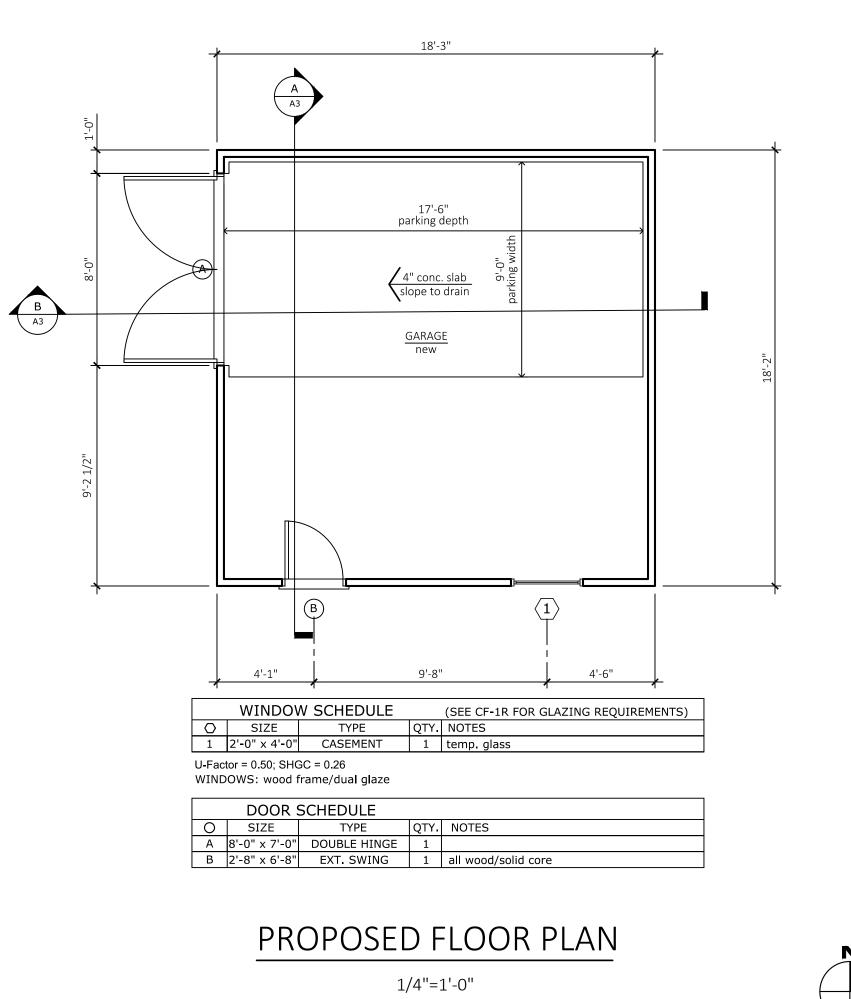


# PROPOSED ROOF PLAN

1/4"=1'-0"

ELECTRICAL PLAN

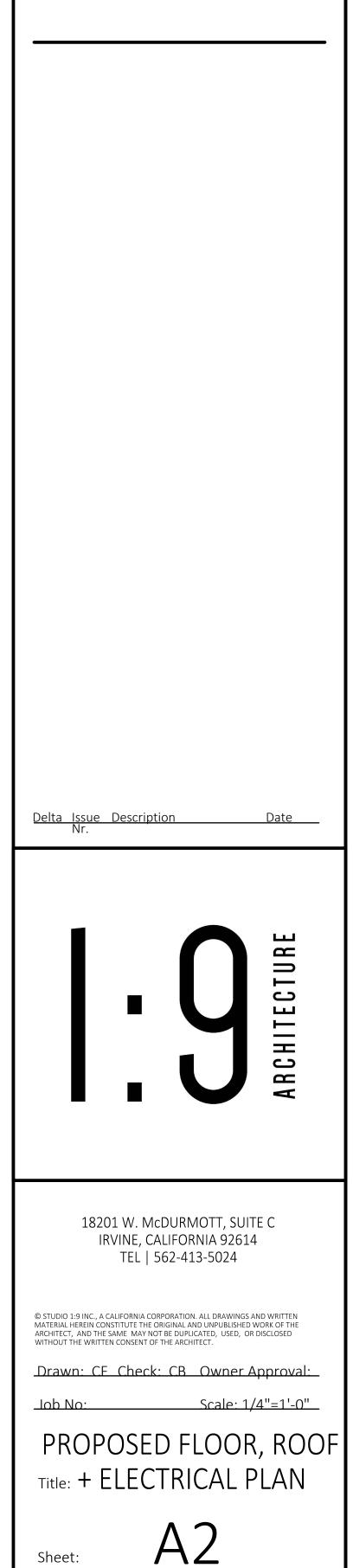
1/4"=1'-0"



GARAGE AREA



# 1634 GRAND AVE. LONG BEACH



332 sq. ft.

### **TYPICAL EXTERIOR MATERIALS:**

EXTERIOR FINISH: 7/8" stucco (finish to be smooth or fine) applied over approved lath and paper backing (2 layers grade 'D' at plywood sheathing)

FLAT ROOF: Class 'A' (min) built-up hot mopped roofing 1/2:12 typical slope; GAF ROOFING ICC-ESR 1475 1 hour parapet required (7/8" stucco or wood siding over 5/8" type 'x' gyp)

PARAPET: stucco parapets; G.I. or copper gutters and downspouts connected to yard drainage system through approved devices

WINDOWS: wood frame/dual glaze w/2x6 trim above

EXTERIOR DOOR: wood frame/dual glaze (temp, if door has glass) w/2x6 trim above

WEEP SCREED: required 4" min. above adj. finish grade

### **TYPICAL SECTION NOTES:**

GRADES: existing to remain typical

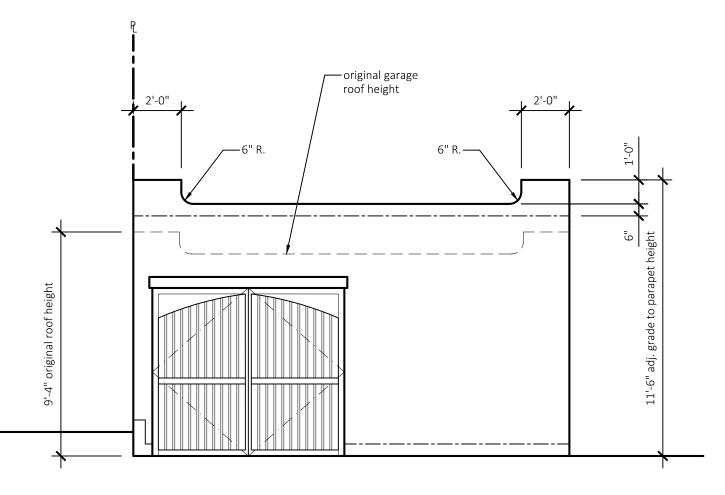
FOUNDATIONS: new 4" concrete slab foundation (see Foundation Plan)

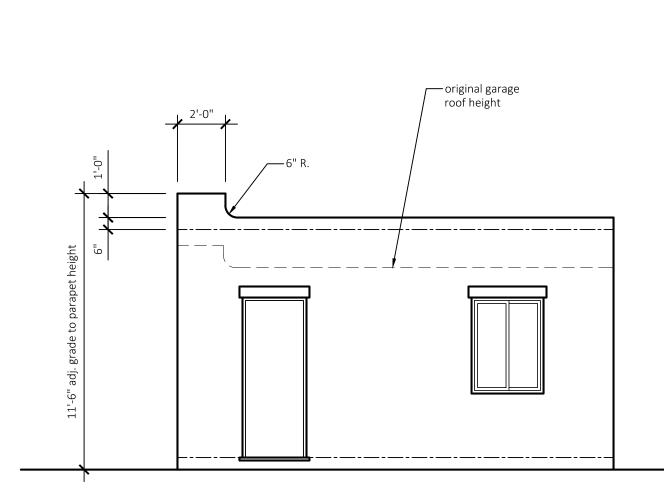
WALLS: 2x4 @ 16" o.c. (unless shown otherwise)

ROOF STRUCTURE: 2x6 RR @ 16" o.c. w/sheathing

FLAT ROOF: Class 'A' (min) built-up hot mopped roofing

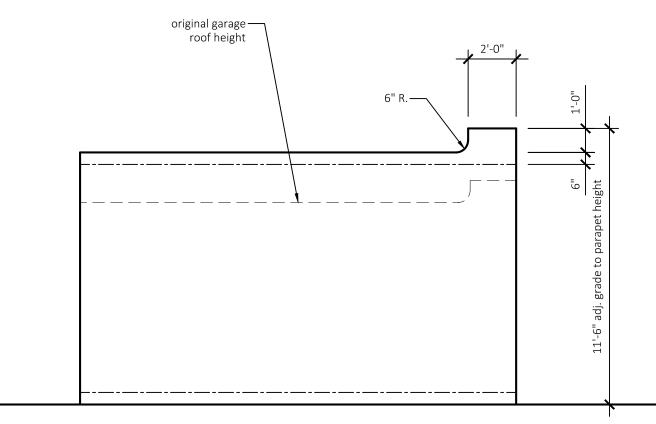
1/2:12 typical slope; GAF ROOFING ICC-ESR 1475 1 hour eave required (7/8" stucco or wood siding over 5/8" type 'x' gyp)





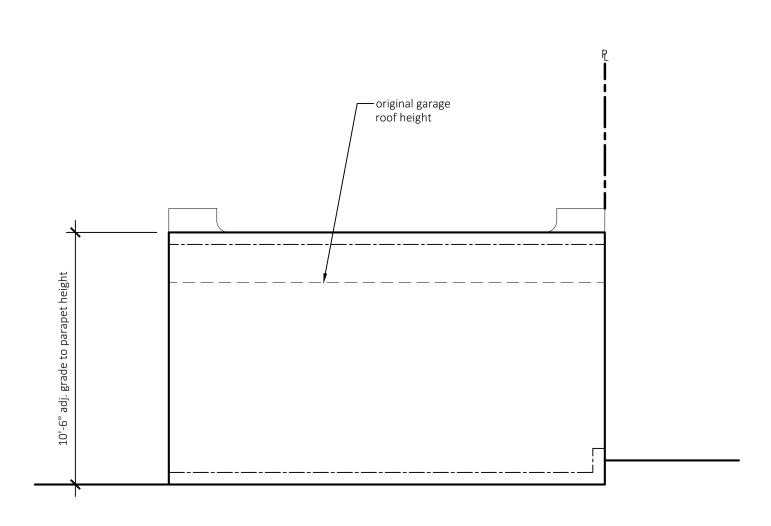
WEST ELEVATION 1/4"=1'-0"





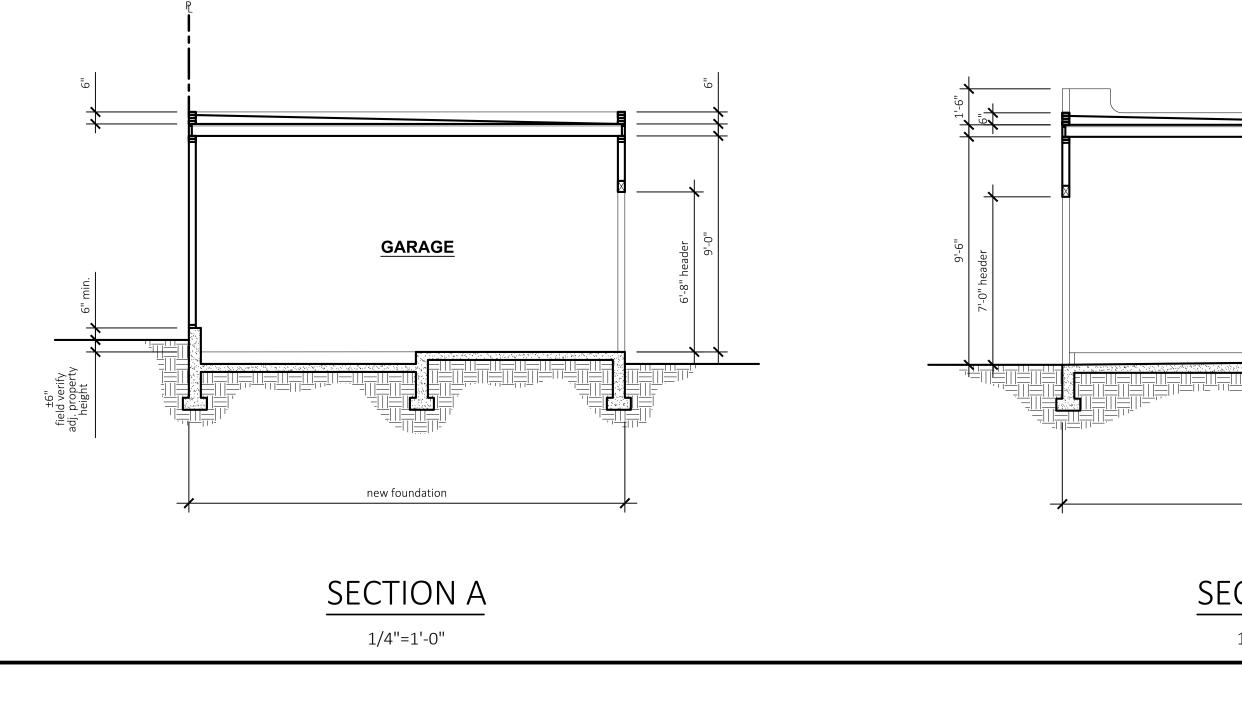
EAST ELEVATION

1/4"=1'-0"







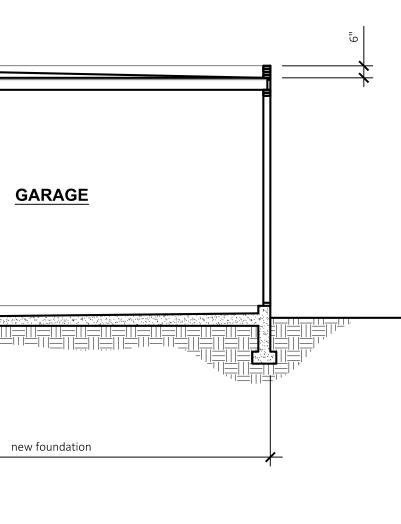


# SOUTH ELEVATION

1/4"=1'-0"

# NORTH ELEVATION

1/4"=1'-0"

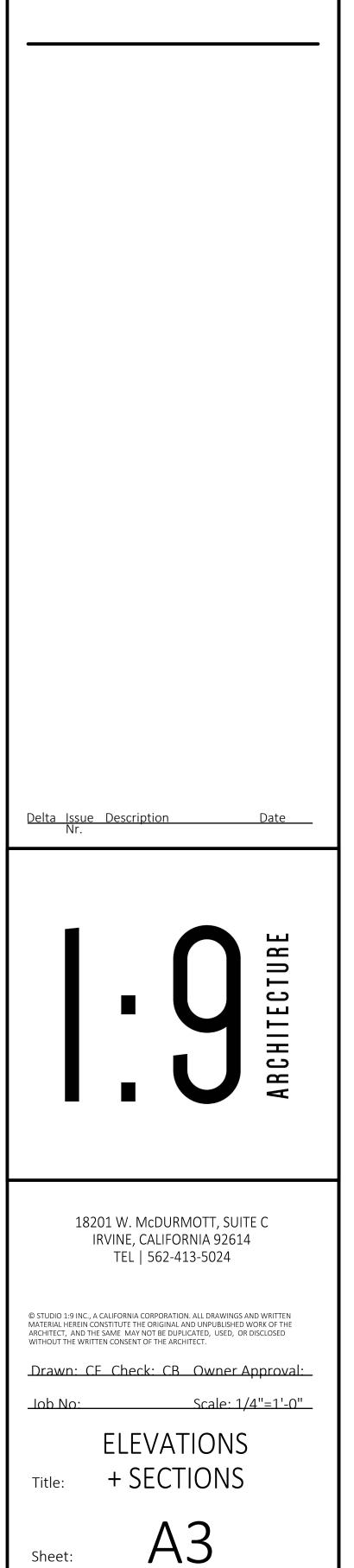


# SECTION B

1/4"=1'-0"

# CORREA RESIDENCE

# 1634 GRAND AVE. LONG BEACH



### CHAPTER 3 **GREEN BUILDING**

SECTION 301 GENERAL withwater-conserving plumbing fixtures. Plumbing fixture

low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will

the permitted work cause updates to plumbing fixtures only:

See Civil Code Section 1101.1 et seq. for for ensuring compliance. CHAPTER 4

SECTION 4.101 GENERAL

4.101.1 Scope. The provisions of this division outline planning, adjacent properties **SECTION 4.102** DEFINITIONS

FRENCH DRAIN. WATTLES. **SECTION 4.103** SITE SELECTION

Reserved) SECTION 4.104 SITE PRESERVATION (Reserved) SECTION 4.105

DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES (Reserved) SECTION 4.106 SITE DEVELOPMENT

4.106.1 General. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 4.106.2 Storm water drainage and retention during construction. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. Retention basins of sufficient size shall be utilized to

retain storm water on the site 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method. water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. 3. Compliance with a lawfully enacted storm water management

4.106.3 Grading and paving. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

2. Water collection and disposal systems French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage

Article 625.

with attached private garages. For each dwelling

permanently and visibly marked as "EV CAPABLE".

301.1 Scope. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures

replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 301.2 Low-rise and high-rise residential buildings. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings, high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to

301.3 Nonresidential additions and alterations. [BSC] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used. 301.3.1 Nonresidential additions and alterations that

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances.

definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities

### **RESIDENTIAL MANDATORY MEASURES**

Division 4.1 – PLANNING AND DESIGN

design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of

4.102.1Definitions. Thefollowing terms are defined inChapter 2.

4.106.4. Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 and 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code,

Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following

Where there is no commercial power supply. Where there is evidence substantiating thatmeeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit. 4.106.4.1 New one- and two-family dwellings and townhouses

unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be

4.106.4.2 New multifamily dwellings. Where 17 or more multifamily dwelling units are constructed on a building site, 3 percent of the total number of parking spaces provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging stations (EVCS) capable of supporting future EVSE and shall be identified on construction documents. Calculations for the number of EVCS shall be rounded up to the nearest whole number. Note: Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. There is no requirement for EVCS to be constructed or available until EV chargers are installed for use.

4.106.4.2.1 Electric vehicle charging station (EVCS) locations. Construction documents shall indicate the location of proposed EVCS. At least one EVCS shall be located in common use areas and available for use by all

When EV chargers are installed, EVCS required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options: The EVCS shall be located adjacent to an accessible

parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking

2. The EVCS shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.

4.106.4.2.2 Electric vehicle charging station (EVCS) dimensions and slope. The EVCS shall be designed to comply with the following

The minimum length of each EVCS shall be 18 feet (5486 mm). 2. The minimum width of each EVCS shall be 9 feet (2743 mm).

One in every 25 EVCS, but not less than one EVCS, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EVCS is 12 feet (3658 mm).

a. Surface slope for this EVCS and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction. 4.106.4.2.3 Single EVCS required. Install a listed raceway

capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EVCS. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device

4.106.4.2.4 Multiple EVCS required. Construction documents shall indicate the raceway termination point and proposed location of future EVCS and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s). have sufficient capacity to simultaneously charge all EVs at all required EVCS at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction. 4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.

The California Department of Transportation adopts and publishes the "California Manual on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and PavementMarkings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/hq/traffops/signtech/ signdel/policy.htm

. See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces.

The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments residents and businesses. Website http://opr.ca.gov/docs/ZEV\_Guidebook.pdf. 4. The Governor's Office of Planning and Research (OPR) has developed draft guidelines,

"Plug-In Electric Vehicles: Universal Charging Access Guidelines and Best Practices", addressing physical accessibility standards and design quidelines for EVs. Website: http://opr.ca.gov/ docs/PEV\_Access\_Guidelines.pdf.

### Division 4.3 -WATER EFFICIENCY AND CONSERVATION SECTION 4.301 GENERAL

4.301.1 Scope. The provisions of this chapter shall establish the means of conserving water used indoors, outdoors and in wastewater conveyance SECTION 4.302

DEFINITIONS

4.302.1 Definitions. Reserved. SECTION 4.303

INDOOR WATER USE

4.303.1 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following 4.303.1.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-typewater closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for

Tank-type Toilets. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush. 4.303.1.3 Showerheads. 4.303.1.3.1 Single showerhead. Showerheads shall

have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPAWaterSense Specification for Showerheads

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allowonly one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4 Faucets.

4.303.1.4.1 Residential lavatory faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.5 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi. 4.303.1.4.2 Lavatory faucets in common and public use areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall

4.303.1.4.3 Metering faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.

4.303.1.4.4 Kitchen faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 4.303.2 Standards for plumbing fixtures and fittings.

Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1401.1 of the California Plumbing Code. SECTION 4.304

### OUTDOOR WATER USE

4.304.1 Irrigation controllers. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:

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 integral 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: More information regarding irrigation controller

function and specifications is available from the Irrigation Association SECTION 4.305

WATER REUSE SYSTEMS (Reserved)

### Division 4.4 – MATERIAL CONSERVATION AND **RESOURCE EFFICIENCY** SECTION 4.401

GENERAL

4.401.1 Scope. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture: construction waste diversion; employment of techniques to reduce pollution through recycling of materials; and building commissioning or testing, adjusting and balancing. SECTION 4.402

DEFINITIONS 4.402.1 Definitions. Reserved

SECTION 4.403

FOUNDATION SYSTEMS (Reserved)

SECTION 4,404 EFFICIENT FRAMING TECHNIQUES

(Reserved) SECTION 4,405

MATERIAL SOURCES (Reserved)

SECTION 4,406 ENHANCED DURABILITY

AND REDUCED MAINTENANCE

4.406.1 Rodent proofing. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing

SECTION 4.407

WATER RESISTANCE AND MOISTURE MANAGEMENT

(Reserved) SECTION 4.408

CONSTRUCTION WASTE REDUCTION.

DISPOSAL AND RECYCLING 4.408.1 Construction waste management. Recycle and/or salvage

and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction local or regional air pollution or air quality and demolition waste management ordinance. Exceptions:

Excavated soil and land-clearing debris.

Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities canable of compliance with this item do not exist or are not located reasonably close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility

4.408.2 Construction waste management plan. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction less packaging, which do not weigh more than 1 for examination by the enforcing agency

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. 2. Specify if construction and demolition waste materials

will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identify diversion facilities where the construction and

demolition waste material will be taken.

4. Identify construction methods employed to reduce the amount of construction and demolition waste generated. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 Waste management company. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company. 4.408.4 Waste stream reduction alternative [LR]. Projects

that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed four (4) lbs./sq. ft. of the building area shall meet the minimum 50 percent construction waste reduction requirement in Section

4.408.4.1 Waste stream reduction alternative. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed two (2) pounds per square foot of the building area, shall meet the minimum 50-percent construction waste reduction requirement in Section 4.408.1. **4.408.5 Documentation.** Documentation shall be provided to

the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this

2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). SECTION 4.409

LIFE CYCLE ASSESSMENT (Reserved)

SECTION 4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 Operation and maintenance manual. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.

Operation and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC systems, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts c. Space conditioning systems, including condensers

and air filters. d. Landscape irrigation systems Water reuse systems. providers on methods to further reduce resource

by the enforcing agency or this code.

available

GENERAL

SECTION 4.501

SECTION 4.502

AGRIFIBER PRODUCTS.

MOISTURE CONTENT.

SECTION 4.503

SECTION 4.504

POLLUTANT CONTROL

shall comply with this section.

management district rules apply

specified in Subsection 2 below.

the following:

of the following:

and Rug Institute's Green Label program.

FIREPLACES

DIRECT-VENT APPLIANCE.

COMPOSITE WOOD PRODUCTS

DEFINITIONS

VOC.

consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what

methods an occupant may use to maintain the relative humidity level in that range. Information about water-conserving landscape and irrigation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet

away from the foundation 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.

Information from local utility, water and waste recovery

9. Information about state solar energy and incentive programs 10. A copy of all special inspection verifications required

**Division 4.5 – ENVIRONMENTAL QUALITY** 

4.501.1 Scope. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating and/or harmful to the comfort and wellbeing of a building's installers, occupants and neighbors.

4.502.1 Definitions. The following terms are defined in Chapter

MAXIMUM INCREMENTAL REACTIVITY (MIR).

PRODUCT-WEIGHTED MIR (PWMIR) REACTIVE ORGANIC COMPOUND (ROC).

4.504.2 Finish material pollutant control. Finish materials

dichloride, methylene chloride, perchloroethylene and

4.503.1 General. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

4.504.1 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount ofwater, dust and debris, which may enter the system.

4.504.2.1 Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent

Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene

trichloroethylene), except for aerosol products, as Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, pound and do not consist ofmore than 16 fluid ounces) shall comply with statewide VOC standards and other

requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507. 4.504.2.2 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the

ARB Architectural Suggested ControlMeasure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-high Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or

Nonflat-high Gloss VOC limit in Table 4.504.3 shall 4.504.2.3 Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements,

including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District

additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.2.4 Verification.Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to,

 Manufacturer's product specification. 2. Field verification of on-site product containers. **4.504.3 Carpet systems.** All carpet installed in the building interior shall meet the testing and product requirements of one

Carpet and Rug Institute's Green Label Plus Program. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources

Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350.) NSF/ANSI 140 at the Gold level. Scientific Certifications Systems Indoor Advantage™

**4.504.3.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. 4.504.4 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall comply with one or more of the following: 1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 1350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database Products certified under ULGREENGUARD Gold (formerly

the Greenquard Children & Schools program). Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. 4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile

Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350) **4.504.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR

93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5. **4.504.5.1 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following

Product certifications and specifications Chain of custody certifications. Product labeled and invoiced as meeting the CompositeWood Products regulation (seeCCR, Title 17, Section

93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636

3S standards. Other methods acceptable to the enforcing agency. TABLE 4.504.5 FORMALDEHYDE LIMITS1

Maximum Formaldehyde Emissions in Parts per Million PRODUCT CURRENT LIMIT Hardwood plywood veneer core 0.05 Hardwood plywood composite core 0.05

Particleboard 0.09 Medium density fiberboard 0.11 Thin medium density fiberboard<sub>2</sub> 0.13

Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 93120.12. Thinmediumdensity fiberboard has amaximumthickness of 5/16 inch(8mm) SECTION 4.505

INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. 4.505.2 Concrete slab foundations. Concrete slab foundations required to have a vapor retarder by the California Building Code, Chapter 19 or concrete slab-on-ground floors

required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following: 1. A 4-inch-thick (101.6 mm) base of 1/2 inch (12.7 mm) or larger clean aggregate shall be provided with a vapor retarder in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional

information, see American Concrete Institute, ACI 302.2R-06. Other equivalent methods approved by the enforcing agency

A slab design specified by a licensed design professional. 4.505.3 Moisture content of building materials. Building materials with visible signs of water damage shall not be installed.Wall and floor framing shall not be enclosed when the framing members exceed 19-percent moisture content. Moisture content shall be verified in compliance with the following: Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.

2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece to be verified

3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure inwall or floor cavities.Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure. SECTION 4.506

INDOOR AIR QUALITY AND EXHAUST

4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following: 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house

ventilation system, fans must be controlled by a humidity a. Humidity controls shall be capable of adjustment

between a relative humidity range of  $\leq$  50 percent to a maximum of 80 percent. A humidity control may utilize manual or automatic means of adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower, or tub/shower combination

2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. SECTION 4.507

ENVIRONMENTAL COMFORT 4.507.1 Reserved

4.507.2 Heating and air-conditioning system design. Heating and air-conditioning systems shall be sized, designed and

have their equipment selected using the following methods: The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J-2004 (Residential Load Calculation), ASHRAE handbooks or other equivalent

design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D-2009 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 (Residential Equipment Selection) or other equivalent design software or

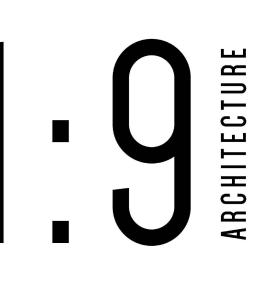
methods Exception: Use of alternate design temperatures necessary to ensure the systems function are acceptable. SECTION 4.508

OUTDOOR AIR QUALITY (Reserved)

# CORREA RESIDENCE

# 1634 GRAND AVE. LONG BEACH

Delta Issue Description



Date

18201 W. McDURMOTT, SUITE C IRVINE, CALIFORNIA 92614 TEL | 562-413-5024

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<u>Drawn: CF Check: CB Owner Approval:</u>

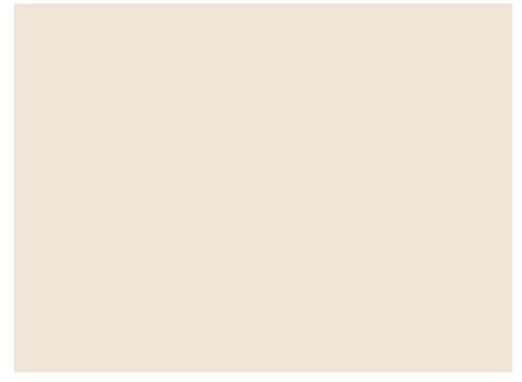
<u>Scale: 1/8"=1'-0"</u>

<u>lob No:</u>

Sheet

GREEN

# FINISH OPTIONS



# STUCCO PAINT COLOR

SHERWIN WILLIAMS SW 7013 IVORY LACE

DOOR STYLES





ARCHITECTURE

## DOOR & TRIM COLOR

SHERWIN WILLIAMS SW 7020 BLACK FOX



### **CORREA RESIDENCE**

1634 GRAND AVE. LONG BEACH, CA

### FRONT DOOR

### GARAGE DOOR