GENERAL NOTES:

- FOUNATION INSPECTION: A PAD CERTIFICATE PREPARED BY A LICENSED CIVIL ENGINEER OR LAND SURVEYOR SHALL BE SUBMITTED TO THE PROJECT BUILDING INSPECTOR AT FOUNDATION INSPECTION. THIS CERTIFICATE SHALL CERTIFY COMPLIANCE WITH THE RECOMMENDATION AS SPECIFIED ON THE SOIL REPORT, & THAT THE BUILDING PAD ELEVATIONS & ON-SITE RETAINING WALL LOCATIONS & ELEVATIONS HAVE BEEN PREPARED ACCORDING TO THE APPROVED PLANS. HORIZONTAL & VERTICAL CONTROLS SHALL BE SET & CERTIFIED BY A LICENSED SURVEYOR OR REGISTERED CIVIL ENGINEER FOR THE FOLLOWING ITEMS: 1) BUILDING PAD ELEVATION
- FINISH FLOOR ELEVATION a) FOUNDATION CORNER LOCATIONS
 4) RETAINING WALL(S) LOCATIONS & ELEVATIONS
- PRIOR TO FOUNDATION INSPECTION BY THE CITY, A LICENSED LAND SURVEYOR OF RECORD SHALL PROVIDE A WRITTEN CERTIFICATE THAT ALL BUILDING SETBACKS COMPLY WITH THE APPROVED PLANS.
- ENCROACHMENT PERMIT: APPLICANT (OWNER) SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY & ALL IMPROVEMENTS IN ANY CITY RIGHT-OF-WAY OR CITY EASEMENT INCLUDING THE STORMWATER SWALE PRIOR TO COMMENCEMENT OF THE WORK.
- CONSTRUCTION WADDLES SHALL BE INSTALLED ALONG STREET SIDES TO PREVENT EROSION DURING RAINY SEASON. SILT AND MUD IN FUBLIC RIGHT-OF-WAY: IT IS THE RESPONSIBILITY OF THE CONTRACTOR & HOMEOWNER TO MAKE SURE THAT ALL DIRT TRACKED INTO THE PUBLIC RIGHT-OF-WAY IS CLEANED UP ON A DAILY BASIS. MUD, SILT, CONCRETE & OTHER CONSTRUCTION
- DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINS. DOCUMENTATION SHALL BE PROVIDED, PRIOR TO FIRST INSPECTION, CONFIRMING COMPLIANCE TO THE WASTE MANAGEMENT PLAN PROVIDED TO THE JURISDICTION. CGBSC SECTION 4.408.2.1
- CONSTRUCTION SITE FIRE SAFETY: ALL CONSTRUCTION SITES MUST COMPLY WITH APPLICABLE PROVISIONS OF THE CFC CHAPTER 33 & OUR STANDARD DETAIL & SPECIFICATION SI-7. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY/TOWN BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION. WATER SUPPLY REQUIREMENTS: POTABLE WATER SUPPLIES SHALL BE
- WATER SUPPLY REQUIREMENTS: FOI ABLE WATER SUPPLIES SHALL BE PROTECTED FROM CONTAMINATION CAUSED BY FIRE PROTECTION WATER SUPPLIES. IT IS THE RESPONSIBILITY OF THE APPLICANT & ANY CONTRACTOR & SUBCONTRACTORS TO CONTACT THE WATER PURVEYOR SUPPLYING THE SITE OF SUCH PROJECT, & TO COMPLY WITH THE REQUIREMENTS OF THAT PURVEYOR. SUCH REQUIREMENTS SUBAL DE INCORDED ATES INTO THE DESIGN OF ANY MATTER PAGED SHALL BE INCORPORATED INTO THE DESIGN OF ANY WATER-BASED FIRE PROTECTION SYSTEMS, \$/OR FIRE SUPPRESSION WATER SUPPLY SYSTEMS OR STORAGE CONTAINERS THAT MAY BE PHYSICALLY CONNECTED IN ANY MANNER TO AN APPLIANCE CAPABLE OF CAUSING CONTAMINATION OF THE POTABLE WATER SUPPLY OF THE PURVEYOR
- OF RECORD. FINAL APPROVAL OF THE SYSTEM UNDER CONSIDERATION WILL NOT BE GRANTED BY THIS OFFICE UNTIL COMPLIANCE WITH THE REQUIREMENTS OF THE WATER PURVEYOR OF RECORD ARE DOCUMENTED BY THAT PURVEYOR AS HAVING BEEN MET BY THE APPLICANT. CFC SEC. 903.3.5 & HEALTH & SAFETY CODE THE BUILDER MUST PROVIDE THE HOMEOWNER WITH A LUMINAIRE SCHEDULE (AS REQUIRED IN TITLE 24 CALIFORNIA CODE OF REGULATIONS, PART 1 §10-103(b)) THAT INCLUDES A LIST OF LAMPS
- NSTALLED IN THE LUMINAIRES. A. ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, & AEROSOL PAINT CONTAINERS MUST REMAIN ON THE SITE FOR FIELD VERIFICATION BY THE BUILDING INSPECTOR. CGBSC SECTION 4.504.2.4
- B. PRIOR TO FINAL INSPECTION, A LETTER SIGNED BY THE GENERAL CONTRACTOR OR THE OWNER/BUILDER (FOR ANY OWNER/BUILDER PROJECTS) MUST BE PROVIDED TO THE TOWN OF OWNER/BUILDER PROJECTS) MUST BE PROVIDED TO THE TOWN OF LOS GATOS BUILDING OFFICIAL CERTIFYING THAT ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AEROSOL PAINTS, AEROSOL COATINGS, CARPET SYSTEMS (INCLUDING CARPETING, CUSHION & ADHESIVE), RESILIENT FLOORING SYSTEMS, & COMPOSITE WOOD PRODUCTS INSTALLED ON THIS PROJECT ARE WITHIN THE EMISSION LIMITS SPECIFIED IN CGBSC SECTION 4.504

AN OPERATION $\mbox{\sc s}$ maintenance manual will be left on site for the owner or occupant at the time of final inspection. CGBsc 4.410.1 NOTE:

- HERS VERIFICATION REQUIRED FOR INDOOR AIR QUALITY VENTILATION, THE KITCHEN HOOD, HVAC COOLING, HVAC HEATING, HVAC DISTRIBUTION. PROVIDE 3RD PARTY VERIFICATION (HERS) TO PROJECT BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION. PROVIDE 6.0 KWdc SOLAR SYSTEM W/13 KWh BATTERY
- BACKUP, A SEPARATE PERMIT IS REQUIRED FOR THE PV SYSTEM THAT IS REQUIRED BY THE ENERGY CALCULATIONS COMPLIANCE MODELING. THE SEPARATE PV SYSTEM PERMIT MUST BE FINALED PRIOR TO ISSUANCE OF CERTIFICATE OF
- PV MODULE TYPE: PREMIUM; PV POWER ELECTRONICS MICROINVERTERS; INDOOR AIR QUALITY, BALANCED FAN; 4 NORTHWEST ENERGY EFFICIENCY ALLIANCE RATED HEAT PUMP WATER HEATER; SPECIFIC BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED IS REQUIRED FOR THIS PROJECT AS "REQUIRED SPECIAL FEATURES OF THE ENERGY CALCULATIONS"
- PERMIT FROM DOSH



EXCAVATION CUTS EXCEEDING 5' TYPICALLY REQUIRE A DOSH PERMIT. ALL EXCAVATIONS MUST CONFORM TO APPLICABLE OSHA & CAL-OSHA REQUIREMENTS. CONTACT CALIFORNIA DEPARTMENT OF OCCUPATIONAL SAFETY & HEALTH (DOSH) FOR INFORMATION ABOUT REQUIRED PERMITS. DOSH'S LOCAL OFFICE: (510) 794-2521. PRIOR TO EXCAVATION, THE EXCAVATION CONTRACTOR SHALL SUBMIT PROOF, TO THE TOWN BUILDING INSPECTOR, THAT SHOWS HE OR SHE HAS RECEIVED SUCH A

ALL TREE MAINTENANCE & CARE SHALL BE PERFORMED BY A QUALIFIED ARBORIST WITH A C-61/D-49 CALIFORNIA CONTRACTORS LIC. TREE MAINTENANCE & CARE SHALL BE SPECIFIED IN WRITING ACCORDING TO AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS: TREE, SHRUB & OTHER WOODY PLANT MANAGEMENT: STANDARD PRACTICES PARTS 1-10 & ADHERE TO ANSI ZI33.1 SAFETY STANDARDS & LOCAL REGULATIONS. ALL MAINTENANCE IS TO BE PERFORMED ACCORDING TO ISA BEST MANAGEMENT PRACTICES PRIOR TO BUILDING PERMIT FINAL APPROVAL, THE PROPERTY SHALL BE IN COMPLIANCE WITH THE VEGETATION CLEARANCE REQUIREMENTS PRESCRIBED CALIF. FIRE CODE § 4906 INCLUDING CALIF. PUBLIC RESOURCES CODE 4291 OR CALIF. GOVERNMENT CODE 51182. CRC § R337.1.5

REGARDING THE PROPOSED BASEMENT, SEE SHEET A-14 FOR TEMPORARY EXCAVATION SLOPE STABILITY.

LANDSCAPE ARCHITECT:

1188 KOTENBERG AVE

STRUCTURAL ENGINEER:

ENERGY CONSULTANT:

MONTEREY ENERGY GROUP

CORNERSTONE STRUCTURAL DESIGNS

2941 SUNRISE BOULEVARD, STE 220



VIEW FROM DRIVEWAY

A NEW RESIDENCE: **THE BOUKNIGHT RESIDENCE**

144 WOOD ROAD LOS GATOS, CA 95030

THIS PROJECT IS LOCATED IN THE WILDLAND URBAN INTERFACE

FIRE/ BUILDING NOTES

• FIRE SPRINKLERS: An automatic residential fire sprinkler system shall be installed in one- and two-family dwellings as follows: In all new one- and two-family dwellings and in existing one- and two-family dwellings when additions are made that increase the building area to more than 3,600 square feet. Note: The owner(s), occupant(s) and any contractor(s) or subcontractor(s) are responsible for consulting with the water purveyor of record in order to determine if any modification or upgrade of the existing water service is required. A State of California licensed (C-16) Fire Protection Contractor shall submit plans, calculations, a completed permit application and appropriate fees to this department for review and appropriate beginning their appropriate fees to this department for review and approval prior to beginning their work. CRC Sec. 313.2 as adopted and amended by LGTC.

• WATER SUPPLY REQUIREMENTS: Potable water supplies shall be protected from contamination caused by fire protection water supplies. It is the responsibility of the applicant and any contractors and subcontractors to contact the water purveyor supplying the site of such project, and to comply with the requirements of that purveyor. Such requirements shall be incorporated into the design of any water-based fire protection systems, and/or fire suppression water supply systems or storage containers that may be physically connected in any manner to an appliance capable of causing contamination of the potable water supply of the purveyor of record. Final approval of the system(s) under consideration will not be granted by this office until compliance with the requirements of the water purveyor of record are documented by that purveyor as having been met by the applicant(s). 2016 CFC Sec. 903.3.5 and Health and Safety Code 13114.7

• ADDRESS IDENTIFICATION: New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address numbers shall be maintained. [CFC Sec. 505.1].

• EMERGENCY GATE/ACCESS GATE REQUIREMENTS: Gate installations shall conform with Fire Department Standard Details and Specification G-1 and, when open shall not obstruct any portion of the required width for emergency access roadways or driveways. Locks, if provided, shall be fire department approved prior to installation. Gates across the emergency access roadways shall be equipped with an approved access devices. Knox Key-switch is required for the automatic gate.

• FIRE APPARATUS (ENGINE) ACCESS DRIVEWAY REQUIRED: Provide an access driveway with a paved all weather surface, a minimum unobstructed width of 12 feet, vertical clearance of 13 feet 6 inches, minimum circulating turning radius of 36 feet outside and 23 feet inside, and a maximum slope of 15%. Installations shall conform to (SUCH THAT the Fire Department Standard Details Specifications D-1 and CFC Section 503.

CONSTRUCTION SITE FIRE SAFETY: All construction site must comply with applicable provisions of the CFC chapter 33 and County of Santa Clara Standard Detail and Specification S1-7.

• REACH CODE COMPLIANCE: This residence will comply with the town's electric appliance, electric vehicle and energy storage system requirements in accordance with town code section 6.70.020 and 6.120.020.

PI	KOJECI DAIA	SHEET INDEX				
PROJECT ADDRESS:	144 WOOD ROAD, LOS GATOS	A-1	COVER SHEET			
			CONDITIONS OF APPROVAL RELIERDINT FOR A CLEAN RAY			
OWNER:	OMARI & KAVITA BOUKNIGHT	AR-1	ARBORIST REPORT			
	10117 dhannon RU Log catog ca geobo	AR-2	ARBORIST REPORT			
		A-2	SITE PLAN			
APN#:	510-47-045	1	TOWN NOTES, PROJECT DATA & ABBREVIATIONS			
		3	EXISTING TOPOGRAPHIC SURVEY			
ZONING:	HR-5		She & utility plan and legend grading & drainage plan			
OCCUPANCY CROUP.		6	GRADING & DRAINAGE PLAN			
CCCUFARCT GROUF:	R-5, U	7	CONSTRUCTION MANAGEMENT & EROSION CONTROL PLAN			
CONSTRUCTION TYPE:	V-B	A-3	LOWER FLOOR PLAN			
	. 2	A-4	MAIN FLOOR PLAN			
GROSS & NET SITE AREA:	29,632 SF	A-5	UPPER FLOOR PLAN			
			OPENING & DOOR SCHEDULE WINDOW SCHEDULE			
Average LOT SLOPE:	35.1%	A-7 A-8	ROOF PLAN			
NET LOT AREA:	11852 85F (AFTER 60% DEDUCTION)	A-9	ELEVATIONS			
		A-10	ELEVATIONS			
PARKING:	2 SPACES IN GARAGE, 4 SPACES ON DRIVEWAY	A-11	SECTIONS A & B			
	·····	A-12	SECTIONS C & D			
FIRE SPRINKLER:	YES	A-13 A-14	SECTIONS E, F, \notin G			
MAX. ALLOWABLE FLOOR AF	REA = 3,9005F	<u>A</u> -15	ARCHITECTURAL DETAILS			
ELOOR	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	E-1	ELEC/MECH LOWER FLOOR PLAN/CALGREEN CHECKLIST			
MAIN FLOOR	1,635 SF 1,169 SF (1) (2,804 SF)	E-2	ELEC/MECH MAIN FLOOR PLAN			
LOWER FLOOR	305 SF (1,493 SF (1) (1,798 SF)	E-3	ELEC/MECH UPPER FLOOR PLAN			
GARAGE (1,214 5F 48 5F $448 \text{ 5F}(1 \pm 2)$ $(1,214 \text{ 5F})$	T-1	TITLE ENERGY CALCULATIONS			
	3,202 SF ((((2)))) (((2))))		TITLE 24 ENERGY CALCULATIONS CENERAL NOTES			
	$\frac{1}{1}$	G1 1	General notes Typical Details			
STRUCTURE COVERAGE:	* EXCLUSIONS:	52 .1	LOWER LEVEL FOUNDATION PLAN			
RESIDENCE + GARAGE FOOTF	RINT 3,781 SF (1) BELOW GRADE SF	52.2	MAIN LEVEL FOUNDATION/FLOOR FRAMING PLAN			
	ALCONIES 1,136 SF (2) GARAGE UP 10 4005P 705 SE	52.3	UPPER LEVEL FLOOR FRAMING PLAN			
SUBTOTAL	5,622 SF = 18.97%	52.4				
		- 53.1	STRUCTURAL DETAILS GTRUCTURAL DETAILG			
I DEFER	RAL SUBMIT TALS 2^{2}	53 3	STRUCTURAL DETAILS			
home		53.4	STRUCTURAL DETAILS			
• PRIVATE FIRE PROTECTION SYST	EM: RESIDENTIAL FIRE PROTECTION SYSTEMS SHALL COMPLY	\$ 53.5	STRUCTURAL DETAILS			
WITH FIRE DEPARTMENT STANDAR	DS W-1 & MANUFACTURER'S REQUIREMENTS. FIRE PROTECTION) MSMH	1 STRONG-WALL ANCHORAGE DETAILS			
A MATER SYSTEMS SHALL BE PERMI A DEFICE THE WHARE HYDRANT GHA	11 ED, INSTALLED & APPROVED BY THE FIRE PREVENTION I I BE ACCESSIBLE AT ALL TIMES TANK SYSTEMS PROVIDING.		2 STRONG-WALL FRAMING DETAILS			
BOTH THE DOMESTIC SUPPLY & SU	PPLY TO THE SPRINKLER SYSTEM AND/OR HYDRANT MAY		LANDSCSAFE DRAINAGE FLAN Eul L Gite Landscape			
REQUIRE CROSS CONTAMINATION	PROTECTION. HYDRANT & TANK OUTLETS SHALL BE INSTALLED	\downarrow L21	FRONT LAYOUT PLAN			
I SUCH THAT THE CENTER OF THE HONOT MORE THAN THIRTY (30") INC.	DSE CONNECTION IS NOT LESS THAN EIGHTEEN (18") INCHES Les above the final grade four new 5,000 gal 1,000	L2.2	REAR LAYOUT PLAN			
WATER TANKS & ONE 1,000 GALLO	ON TANK TO BE INSTALLED WITH BOOSTER PUMP FOR	L3.0	UTILITY PLAN			
DOMESTIC USE.		L 4.0	DETAIL CALLOUTS			
Y · PV SYSTEM - A SEPARATE BUILD	ING PERMIT IS REQUIRED FOR THE PV SYSTEM AS REQUIRED		DETAILS			
I BIT THE ENERGY CALCULATIONS CO	Ompliance modeling as hell as dattert backup.	$\begin{array}{c} \begin{array}{c} L4.2 \\ 14.3 \end{array}$				
*HANDRAILS			TREE PLAN			
A *GUARD RAILS		L6.0	PLANTING PLAN			
		LT.0	IRRIGATION PLAN			
HENGINEER FOR REVIEW & COORDIN	ALL FIRDI DE DUDMITTEN TO THE FROJECT ARCHITECT & NATION: A SUBMITTAL TO THE TOWN SHALL BE MADE (FOR	√ 51	POOL STRUCTURAL PLANS			
TOWN REVIEW & APPROVAL), WHIC	H SHALL INCLUDE A LETTER STATING THIS REVIEW #	52	POOL SECTIONS			
COORDINATION HAS BEEN PERFOR	RMED & COMPLETED & PLANS & CALCULATIONS FOR THE		POOL DETAILS			
(IDEFERRED ITEMS ARE FOUND TO (ICONDITIONS FTC.) WITH NO EXCEE	BE ACCEPTABLE (E.G., WITH REGARD TO GEOMETRY, LOAD PTIONS CRC SECTIONS R1061 # R301131	⊀				
		1				



TOW	TOWN OF LOS CATOS	DONE
	COMMUNITY DEVELOPMENT DEPARTMENT	UNDERSTOOI DONE
Los G	(408) 354-6872 Fax (408) 354-7593 Los Gatos, CA 95030	
Septe	nber 13, 2021	N/#
Gary H	iohlsaat	
51 Un Los Ga Via En	versity Avenue, Suite L tos, CA 95030 pail	CIVIL PRO
RE:	Wood Road	
	Architecture and Site Application S-21-003	
	Requiring a Grading Permit on Vacant Property Zoned HR-5. APN 510-47-045.	
	PROPERTY OWNER: Omari and Kavita Bouknight APPLICANT: Gary Kohlsaat	
At its	PROJECT PLANNER: Sean Mullin meeting of September 8, 2021, the Town of Los Gatos Planning Commission approved the	IN PLA
meeti for th	ng minutes from August 25, 2021, confirming any additional or modified conditions of approval e project.	IN PLA
The P	anning Commission decision is now considered final.	
The co	unditions of approval, including any additional or modified conditions of approval for the project underlined font attached to the letter dated August 25, 2021, are now considered final.	
lf you	have any questions, I can be contacted by email at <u>smullin@losgatosca.gov</u> .	
Sincer	ely,	NONE R
Sean	Mallin AICP	
Assoc	ate Planner	
Cc: Je	ssie Delucchi, Omari Bouknight, Kavita Bouknight – Via email	IN PLA
N:\DEV\ PL	ANNING COMMISSION –August 25, 2021	NOTED Plans
CO	NDITIONS OF APPROVAL	
<u>Wo</u> Are	<u>ои коац [APN 510-47-045]</u> hitecture and Site Application S-21-003	UNDERSTOOI
Re Im	questing Approval for Construction of a New Single-family Residence and Site provements Requiring a Grading Permit on Vacant Property Zoned HR-5.	
AP	N 510-47-045.	UNDERSTOOL
PR AP PR	OPERTY OWNERS: Omari and Kavita Bouknight. PLICANT: Gary Kohlsaat, Architect. DIECT PLANNER: Sean Mullin	
то	THE SATISFACTION OF THE DIRECTOR OF COMMUNITY DEVELOPMENT:	
Pla	nning Division	IN PLANSE
1. NDERSTOOD	APPROVAL: This application shall be completed in accordance with all of the conditions of approval and in substantial compliance with the approved plans. Any changes or	
	modifications to the approved plans and/or business operation shall be approved by the Community Development Director, DRC or the Planning Commission depending on the scope of the shanges	UNDERSTOOI
2. Nderstood	EXPIRATION: The approval will expire two years from the approval date pursuant to Section 29.20.320 of the Town Code, unless the approval has been vested.	
3. NOTED ON BITE PLAN	OUTDOOR LIGHTING: Exterior lighting shall be kept to a minimum and shall be down directed fixtures that will not reflect or encroach onto adjacent properties. No flood lights	
4.	shall be used unless it can be demonstrated that they are needed for safety or security. EXTERIOR COLORS: The exterior colors of all structures shall comply with the Hillside	
5. OWNER TO	Development Standards & Guidelines. DEED RESTRICTION: Prior to the issuance of a building permit, a deed restriction shall be	
BIGN	exterior materials be maintained in conformance with the Town's Hillside Development	
N/A 6.	TREE REMOVAL PERMIT: A Tree Removal Permit shall be obtained for any trees to be removed, prior to the issuance of a building or grading permit.	INCLUDED IN
7. Nderstood	EXISTING TREES: All existing trees shown on the plan and trees required to remain or to be planted are specific subjects of approval of this plan and must remain on the site.	CIVIL PLANS
8. ONTRACTOR O PROVIDE	TREE FENCING: Protective tree fencing, and other protection measures shall be placed at the drip line of existing trees prior to issuance of demolition and building permits and shall	
٥	remain through all phases of construction. Include a tree protection plan with the construction plans.	
N PLANSET	recommendations identified in the Arborist's report dated as received January 26, 2021 for the project, on file in the Community Development Department. These recommendations	
	must be incorporated in the building permit plans and completed prior to issuance of a building permit where applicable.	UNDERSTOOI
10. WNER TO IGN	TREE DEED RESTRICTION: Prior to issuance of a building permit, a deed restriction shall be recorded by the applicant with the Santa Clara County Recorder's Office that identifies the	
	on-site trees and those located in the adjacent exclusive use easement east of the subject property that were used to provide screening in the visibility analysis and requires their replacement if they did as are removed.	SEE PAGE 7 OF CIVII
11. DWNER TO	MAINTENANCE AGREEMENT: Following the issuance of a certificate of occupancy, the property owner shall execute a five-year maintenance agreement with the Town that the	UNDERSTOOT
SIGN .	property owner agrees to protect and maintain the trees shown to remain on the approved plans, trees planted as part of the tree replacement requirements. trees planted	UNDERSTOOL
	for screening, and guarantees that said trees will always be in a healthy condition during the term of the maintenance agreement.	
12. N Planset	FRONT YARD LANDSCAPE: Prior to issuance of a Certificate of Occupancy the front yard must be landscaped.	UNDERST <i>OO</i> I
13. N PLANSET	I KEE KEPLACEIVIEN I : Prior to issuance of final occupancy replacement trees must be planted. WATER FEELCIENCY LANDSCAPE ORDINIANCE: The final landscape plan shall most the Tours	
IDERSTOOD	of Los Gatos Water Conservation Ordinance or the State Water Efficient Landscape Ordinance, whichever is more restrictive. A review fee based on the current fee schedule	CONTRACTOR TO PROVIDE
	adopted by the Town Council is required when working landscape and irrigation plans are submitted for review.	UNDERSTOOD
<i>do</i> ne 15.	STORY POLES: The story poles on the project site shall be removed within 30 days of approval of the Architecture & Site application.	
16. NDERSTOOD	TOWN INDEMNITY: Applicants are notified that Town Code Section 1.10.115 requires that any applicant who receives a permit or entitlement from the Town shall defend, indemnify,	UNDERST <i>OO</i> I
	and hold harmless the Town and its officials in any action brought by a third party to overturn, set aside, or void the permit or entitlement. This requirement is a condition of	UNDERSTOOL
	approval of all such permits and enditements whether or not expressly set forth in the approval, and may be secured to the satisfaction of the Town Attorney.	UNDERSTOOL
··- · · ·· 1/.	building plans detailing how the Conditions of Approval will be addressed.	
Build	<i>ling Division</i> PERMITS REQUIRED: A Building Permit is required for the construction of the new single-	UNDERSTOOI
verst <i>ood</i>	family residence and attached garage. Additional permits will be required for any detached structure such as pools, patio covers, vehicular gates, retaining walls that support	
	a surcharge, etc An additional Building Permit will be required for the PV System if the system is required by the California Energy Code.	
19. N Planset	APPLICABLE CODES: The current codes, as amended and adopted by the Town of Los Gatos as of January 1, 2020, are the 2019 California Building Standards Code, California Code of Regulations Title 24, Parts 1-12, including locally adopted Energy Reach Codes	
HIS IS IT 20.	CONDITIONS OF APPROVAL: The Conditions of Approval must be blue lined in full on the cover sheet of the construction plans. A Compliance Memorandum shall be prepared and	
:	submitted with the building permit application detailing how the Conditions of Approval will be addressed.	

4 23. SOILS REPORT: A Soils Report, prepared to the satisfaction of the Building Official, specializing in soils mechanics. A 24. SHORING: Shoring plans and calculations will be required for all excavations which exceed California licensed engineer and shall confirm to the Cal/OSHA regulations. surveyor shall be submitted to the project Building Inspector at foundation inspection. Report, and that the building pad elevations and on-site retaining wall locations and following items: a. Building pad elevation b. Finish floor elevation c. Foundation corner locations Retaining wall(s) locations and elevations 26. TITLE 24 ENERGY COMPLIANCE: All required California Title 24 Energy Compliance Forms must be blue-lined (sticky-backed), i.e. directly printed, onto a plan sheet. 27. TOWN RESIDENTIAL ACCESSIBILITY STANDARDS: New residential units shall be designed with adaptability features for single-family residences per Town Resolution 1994-61: a. Wood backing (2" x 8" minimum) shall be provided in all bathroom walls, at water backing, suitable for the installation of grab bars if needed in the future. b. All passage doors shall be at least 32-inch wide doors on the accessible floor level. 18-inch clearance at interior strike edge. d. A door buzzer, bell or chime shall be hard wired at primary entrance 28. BACKWATER VALVE: The scope of this project may require the installation of a sanitary elevation of the next upstream manhole. 29. HAZARDOUS FIRE ZONE: All projects in the Town of Los Gatos require Class A roof assemblies 30. WILDLAND-URBAN INTERFACE: This project is located in a Wildland-Urban Interface High Fire Area and must comply with Section R337 of the 2019 California Residential Code, Public Resources Code 4291 and California Government Code Section 51182. 31. PROVIDE DEFENSIBLE SPACE/FIRE BREAK LANDSCAPING PLAN: Prepared by a California LANS licensed Landscape Architect in conformance with California Public Resources Code 4291 and California Government Code Section 51182. Architect certifying the landscaping and vegetation clearance requirements have been 51182. \mathcal{P} 33. SPECIAL INSPECTIONS: When a special inspection is required by CBC Section 1704, the Architect or Engineer of Record shall prepare an inspection program that shall be Division Service Counter or online at www.losgatosca.gov/building. er 34. BLUEPRINT FOR A CLEAN BAY SHEET: The Town standard Santa Clara Valley Nonpoint www.losgatosca.gov/building. ₱ 35. APPROVALS REQUIRED: The project requires the following departments and agencies approval before issuing a building permit: a. Community Development – Planning Division: (408) 354-6874 b. Engineering/Parks & Public Works Department: (408) 399-5771 c. Santa Clara County Fire Department: (408) 378-4010 d. West Valley Sanitation District: (408) 378-2407 district(s) for processing. A copy of the paid receipt is required prior to permit issuance. TO THE SATISFACTION OF THE DIRECTOR OF PARKS & PUBLIC WORKS: Engineering Division ▶ 36. GENERAL: All public improvements shall be made according to the latest adopted Town goods and materials on the sidewalk and/or the street will not be allowed unless an Department. The Owner's representative in charge shall be at the job site during all performing the required maintenance at the Owner's expense. ₽ 37. APPROVAL: This application shall be completed in accordance with all the conditions of approvals shall be approved by the Town Engineer. 38. CONSTRUCTION PLAN REQUIREMENTS: Construction drawings shall comply with Section 1 <u>available for download from the Town's website</u>. ${\sf P}$ 39. PRIOR APPROVALS: All conditions per prior approvals shall be deemed in full force and affect for this approval. P 40. GENERAL LIABILITY INSURANCE: The property owner shall provide proof of insurance to the Town on a yearly basis. In addition to general coverage, the policy must cover all elements encroaching into the Town's right-of-way. ₽ 41. PUBLIC WORKS INSPECTIONS: The Owner or their representative shall notify the Failure to do so will result in penalties and rejection of any work that occurred without inspection 42. SITE SUPERVISION: The General Contractor shall provide qualified supervision on the job site at all times during construction. 43. STREET CLOSURE: Any proposed blockage or partial closure of the street and/or sidewalk required. ₱ 44. PLAN CHECK FEES: Plan check fees associated with the Grading Permit shall be deposited with the Engineering Division of the Parks and Public Works Department prior to the commencement of plan check review. arphi 45. INSPECTION FEES: Inspection fees shall be deposited with the Town prior to the issuance of any grading or building permits or recordation of the Parcel / Final Map.

(72) hours in advance of all the proposed changes. Any approved changes shall be incorporated into the final "as-built" plans. [™] 47. PLANS AND STUDIES: All required plans and studies shall be prepared by a Registered Owner.

■ 21. BUILDING & SUITE NUMBERS: Submit requests for new building addresses to the Building 48. GRADING PERMIT: A grading permit is required for all site grading and drainage work CIVIL TO PROVIDE Division prior to submitting for the building permit application process. except for exemptions listed in Section 12.20.015 of The Code of the Town of Los Gatos 22. SIZE OF PLANS: Minimum size 24" x 36", maximum size 30" x 42". (Grading Ordinance). After the preceding Architecture and Site Application has been approved by the respective deciding body, the grading permit application (with grading containing foundation and retaining wall design recommendations, shall be submitted with plans and associated required materials and plan check fees) shall be made to the the Building Permit Application. This report shall be prepared by a licensed Civil Engineer Engineering Division of the Parks and Public Works Department located at 41 Miles Avenue. The grading plans shall include final grading, drainage, retaining wall location(s), driveway, utilities and interim erosion control. Grading plans shall list earthwork quantities five (5) feet in depth or which remove lateral support from any existing building, adjacent and a table of existing and proposed impervious areas. Unless specifically allowed by the property, or the public right-of-way. Shoring plans and calculations shall be prepared by a Director of Parks and Public Works, the grading permit will be issued concurrently with the building permit. The grading permit is for work outside the building footprint(s). Prior to 25. FOUNDATION INSPECTIONS: A pad certificate prepared by a licensed civil engineer or land Engineering signing off and closing out on the issued grading permit, the Owner/Applicant/Developer's soils engineer shall verify, with a stamped and signed letter This certificate shall certify compliance with the recommendations as specified in the Soils that the grading activities were completed per plans and per the requirements as noted in the soils report. A separate building permit, issued by the Building Department, located at elevations have been prepared according to the approved plans. Horizontal and vertical 110 E. Main Street, is needed for grading within the building footprint. controls shall be set and certified by a licensed surveyor or registered Civil Engineer for the UNDERSTOOD 49. ILLEGAL GRADING: Per the Town's Comprehensive Fee Schedule, applications for work unlawfully completed shall be charged double the current fee. As a result, the required grading permit fees associated with an application for grading will be charged accordingly. UNDERSTOOD 50. GRADING ACTIVITY RESTRICTIONS: Upon receipt of a grading permit, any and all grading activities and operations shall not occur during the rainy season, as defined by Town Code of the Town of Los Gatos, Sec. 12.10.020, (October 15-April 15), has ended. UNDERSTOOD 51. COMPLIANCE WITH HILLSIDE DEVELOPMENT STANDARDS AND GUIDELINES: All grading activities and operations shall be in compliance with Section III of the Town's Hillside Development Standards and Guidelines. All development shall be in compliance with Section II of the Town's Hillside Development Standards and Guidelines. UNDERSTOOD 52. DRIVEWAY: The driveway conform to existing pavement on Wood Road shall be closets. showers, and bathtubs, located 34 inches from the floor to the center of the constructed in a manner such that the existing drainage patterns will not be obstructed. UNDERSTOOD 53. CONSTRUCTION EASEMENT: Prior to the issuance of a grading or building permit, it shall be the sole responsibility of the Owner to obtain any and all proposed or required easements c. The primary entrance door shall be a 36-inch-wide door including a 5'x 5' level landing, and/or permissions necessary to perform the grading herein proposed. Proof of no more than 1 inch out of plane with the immediate interior floor level and with an agreement/approval is required prior to the issuance of any Permit. N/A 54. TREE REMOVAL: Copies of all necessary tree removal permits shall be provided prior to the issuance of a grading permit/building permit. 5. SURVEYING CONTROLS: Horizontal and vertical controls shall be set and certified by a CIVIL TO PROVIDE sewer backwater valve per Town Ordinance 6.50.025. Please provide information on the licensed surveyor or registered civil engineer qualified to practice land surveying, for the plans if a backwater valve is required and the location of the installation. The Town of Los following items: Gatos Ordinance and West Valley Sanitation District (WVSD) requires backwater valves on a. Retaining wall: top of wall elevations and locations. drainage piping serving fixtures that have flood level rims less than 12 inches above the b. Toe and top of cut and fill slopes. UNDERSTOOD 56. PRECONSTRUCTION MEETING: Prior to issuance of any grading or building permits or the commencement of any site work, the general contractor shall: a. Along with the Owner, attend a pre-construction meeting with the Town Engineer to discuss the project conditions of approval, working hours, site maintenance and other construction matters; b. Acknowledge in writing that they have read and understand the project conditions of approval and will make certain that all project sub-contractors have read and understand them as well prior to commencing any work, and that a copy of the project conditions of approval will be posted on-site at all times during construction. CIVIL TO PROVIDE completed per the California Public Resources Code 4291 and Government Code Section 57. RETAINING WALLS: A building permit, issued by the Building Department, located at 110 E. CIVIL TO PROVIDE Main Street, may be required for site retaining walls. Walls are not reviewed or approved by the Engineering Division of Parks and Public Works during the grading permit plan submitted to the Building Official for approval prior to issuance of the Building Permit. The review process. Town Special Inspection form must be completely filled-out and signed by all requested parties prior to permit issuance. Special Inspection forms are available from the Building **GEOLOGICAL AND GEOLOGY:** UNDERSTOOD 58. SOILS ENGINEER CONSTRUCTION OBSERVATION: During construction, all excavations and Source Pollution Control Program Sheet (page size same as submitted drawings) shall be grading shall be inspected by the Owner's soils engineer prior to placement of concrete part of the plan submittal as the second page. The specification sheet is available at the and/or backfill so they can verify that the actual conditions are as anticipated in the design-Building Division Service Counter for a fee of \$2 or at ARC Blueprint for a fee or online at level geotechnical report and recommend appropriate changes in the recommendations CIVIL TO PROVIDE contained in the report, if necessary. The results of the construction observation and testing shall be documented in an "as-built" letter/report prepared by the Owner's soils engineer and submitted to the Town before a certificate of occupancy is granted. UNDERSTOOD 59. SOIL RECOMMENDATIONS: The project shall incorporate the geotechnical/geological recommendations contained in the project's design-level geotechnical/geological investigation as prepared by the Owner's engineer(s), and any subsequently required report or addendum. Subsequent reports or addendum are subject to peer review by the e. Local School District: The Town will forward the paperwork to the appropriate school Town's consultant and costs shall be borne by the Owner. **IMPROVEMENT PLANS:** 60. JOINT TRENCH PLANS: Joint trench plans shall be reviewed and approved by the Town prior CIVIL TO PROVIDE to recordation of a map/and or issuance of a grading permit. The joint trench plans shall CONTRACTOR TO PROVIDE include street and/or site lighting and associated photometrics. A letter shall be provided by PG&E stating that public street light billing will by Rule LS2A, and that private lights shall be metered with billing to the homeowners' association. Pole numbers, assigned by PG&E, Standard Plans, Standard Specifications and Engineering Design Standards. All work shall shall be clearly delineated on the plans. INCLUDED IN 61. UTILITIES: The Owner shall install all new, relocated, or temporarily removed utility conform to the applicable Town ordinances. The adjacent public right-of-way shall be kept clear of all job-related mud, silt, concrete, dirt and other construction debris at the end of services, including telephone, electric power and all other communications lines the day. Dirt and debris shall not be washed into storm drainage facilities. The storing of underground, as required by Town Code Section 27.50.015(b). All new utility services shall be placed underground. Underground conduit shall be provided for cable television encroachment permit is issued by the Engineering Division of the Parks and Public Works service. The Owner is required to obtain approval of all proposed utility alignments from any and all utility service providers before a Certificate of Occupancy for any new building working hours. Failure to maintain the public right-of-way according to this condition may can be issued. The Town of Los Gatos does not approve or imply approval for final result in the issuance of correction notices, citations, or stop work orders and the Town alignment or design of these facilities. OWNER TO SIGN 62. PRIVATE EASEMENTS: Agreements detailing rights, limitations and responsibilities of involved parties shall accompany any proposed private easement. Access driveway shall be approval listed below and in substantial compliance with the latest reviewed and approved within the recorded access easement. A new private access easement shall be recorded, development plans. Any changes or modifications to the approved plans or conditions of and an electronic copy (PDF) of the recorded agreement shall be submitted to the CIVIL TO PROVIDE Engineering Division of the Parks and Public Works Department, prior to issuance of a grading or building permit. A realigned access driveway shall be completed prior to the (Construction Plan Requirements) of the Town's Engineering Design Standards, which are issuance of grading or building permit. INCLUDED IN 63. DRIVEWAY APPROACH: The Owner shall install a Town standard residential/commercial CIVIL PLANS driveway approach. The new driveway approach shall be constructed per Town Standard Plans and must be completed and accepted by the Town before a Certificate of Occupancy for any new building can be issued. New concrete shall be free of stamps, logos, names, graffiti, etc. Any concrete identified that is displaying a stamp or equal shall be removed and replaced at the Contractor's sole expense and no additional compensation shall be allowed therefore. Engineering Inspector at least twenty-four (24) hours before starting any work pertaining UNDERSTOOD 64. FENCING: Any fencing proposed within two hundred (200) feet of an intersection shall to on-site drainage facilities, grading or paving, and all work in the Town's right-of-way. comply with Town Code Section §23.10.080. UNDERSTOOD 65. SIGHT TRIANGLE AND TRAFFIC VIEW AREA: Any proposed improvements, including but not limiting to trees and hedges, will need to abide by Town Code Sections 23.10.080, 26.10.065, and 29.40.030. **TRAFFIC AND TRANSPORTATION:** requires an encroachment permit. Special provisions such as limitations on works hours, protective enclosures, or other means to facilitate public access in a safe manner may be SEE PAGE 66. CONSTRUCTION VEHICLE PARKING: Construction vehicle parking within the public right-ofway will only be allowed if it does not cause access or safety problems as determined by the Town. UNDERSTOOD 67. ADVANCE NOTIFICATION: Advance notification of all affected residents and emergency services shall be made regarding parking restriction, lane closure or road closure, with specification of dates and hours of operation. UNDERSTOOD 68. HAULING OF SOIL: Hauling of soil on- or off-site shall not occur during the morning or m
abla 46. DESIGN CHANGES: Any proposed changes to the approved plans shall be subject to the evening peak periods (between 7:00 a.m. and 9:00 a.m. and between 4:00 p.m. and 6:00 approval of the Town prior to the commencement of any and all altered work. The p.m.), and at other times as specified by the Director of Parks and Public Works. Prior to Owner's project engineer shall notify, in writing, the Town Engineer at least seventy-two the issuance of a grading or building permit, the Owner and/or Applicant or their representative shall work with the Town Building Department and Engineering Division Inspectors to devise a traffic control plan to ensure safe and efficient traffic flow under periods when soil is hauled on or off the project site. This may include, but is not limited to Professional Engineer in the State of California and submitted to the Town Engineer for provisions for the Owner and/or Applicant to place construction notification signs noting review and approval. Additionally, any post-project traffic or parking counts, or other the dates and time of construction and hauling activities, or providing additional traffic CIVIL TO PROVIDE studies imposed by the Planning Commission or Town Council shall be funded by the control. Coordination with other significant projects in the area may also be required. Cover all trucks hauling soil, sand and other loose debris. UNDERSTOOD 69. CONSTRUCTION HOURS: All subdivision improvements and site improvements construction activities, including the delivery of construction materials, labors, heavy equipment, supplies, etc., shall be limited to the hours of 8:00 a.m. to 6:00 p.m., weekdays and 9:00 a.m. to 4:00 p.m. Saturdays. The Town may authorize, on a case-by-case basis, alternate construction hours. The Owner shall provide written notice twenty-four (24) hours in advance of modified construction hours. Approval of this request is at discretion of the Town UNDERSTOOD 70. CONSTRUCTION NOISE: Between the hours of 8:00 a.m. to 6:00 p.m., weekdays and 9:00 a.m. to 4:00 p.m. Saturdays, construction, alteration or repair activities shall be allowed. No individual piece of equipment shall produce a noise level exceeding eighty-five (85) dBA

> at twenty-five (25) feet from the source. If the device is located within a structure on the property, the measurement shall be made at distances as close to twenty-five (25) feet

from the device as possible. The noise level at any point outside of the property plane shall not exceed eighty-five (85) dBA.

- SEE PAGE 71. CONSTRUCTION MANAGEMENT PLAN SHEET: Prior to the issuance of any grading or building permits, the Owner and/or Applicant's design consultant shall submit a construction management plan sheet (full-size) within the plan set that shall incorporate at a minimum the Earth Movement Plan, Traffic Control Plan, Project Schedule, site security fencing, employee parking, construction staging area, materials storage area(s), construction trailer(s), concrete washout(s) and proposed outhouse locations. Please refer to the Town's <u>Construction Management Plan Guidelines</u> document for additional information.
- UNDERSTOOD 72. SHARED PRIVATE STREET: The private street accessing Project Site shall be kept open and in a safe, drive-able condition throughout construction. If temporary closure is needed, then formal written notice shall be provided at least one week in advance of closure. UNDERSTOOD 73. PRIVATE STREET PAVEMENT RESTORATION: Prior to issuance of a Certificate of Occupancy for any new building, the Owner/Applicant/Developer shall overlay to section of private street pavement immediately in front of/adjacent to the subject property, or alternative pavement restoration measure as approved by the Town Engineer.
- UNDERSTOOD 74. COMMON PRIVATE DRIVEWAY: The common private driveway accessing the Project Site shall be kept open and in a safe, drive-able condition throughout construction and in perpetuity after construction has been completed. If temporary closure is needed, then formal written notice shall be provided at least one (1) week in advance of closure.
- UNDERSTOOD 75. EMERGENCY VEHICLE ACCESS: The Emergency Vehicle Access Easement (EVAE) that traverses the Project Site shall be kept open and in a safe, drive-able condition throughout construction. If temporary closure is needed, then formal written notice shall be provided at least one week in advance of closure.
- UNDERSTOOD 76. EMERGENCY VEHICLE ACCESS EASEMENT: Prior to the issuance of any grading or building permits, the Owner shall coordinate with the Santa Clara County Fire Department to ensure that any proposed modifications to the Emergency Vehicle Access Easement that traverses the Project Site are curvilinear, allows for the Department's equipment to travel across said easement, and meets all Department specifications. Plans shall be submitted to the Santa Clara County Fire Department for approval prior to construction.

OTHER PERMITS:

- N/A 77. SANTA CLARA VALLEY WATER DISTRICT (SCVWD): Prior to start of any work along or within Santa Clara Valley Water District (SCVWD) right-of-way/easement, the Owner shall submit construction plans to SCVWD for review and approval and obtain necessary encroachment permits for the proposed work. A copy of approved encroachment permit is required to be submitted to the Engineering Division of the Parks and Public Works Department prior to Grading/Building Permit issuance.
- NEW LATERAL 78. WVSD (West Valley Sanitation District): Sanitary sewer laterals are televised by West Valley Sanitation District and approved by the Town of Los Gatos before they are used. A Sanitary Sewer Clean-out is required for each property at the property line, within one (1) foot of the property line per West Valley Sanitation District Standard Drawing 3, or at a location specified by the Town.

STORMWATER MANAGEMENT:

- 79. STATE CONSTRUCTION GENERAL PERMIT: In the event that, during the production of construction drawings for the plans approved with this application by the Town of Los Gatos, it is determined that the project will disturb one (1) acre or more of site area, the filing of a Notice of Intent (NOI) and submittal of a Storm Water Pollution Prevention Plan (SWPPP) to the San Francisco Bay Regional Water Quality Control Board as part of a State Construction General Permit will be required. These items shall all be completed and accepted by the Engineering Division before issuance of a grading/building permit.
- UNDERSTOOD 80. NPDES STORMWATER COMPLIANCE: In the event that, during the production of construction drawings for the plans approved with this application by the Town of Los Gatos, it is determined that the project will create and/or replace more than 2,500 square feet of impervious area, completion of the NPDES Stormwater Compliance Small Projects Worksheet and implementation of at least one of the six low impact development site design measures it specifies shall be completed and submitted to the Engineering Division before issuance of a grading/building permit.
 - 81. SITE DESIGN MEASURES: All projects shall incorporate at least one of the following
 - a. Protect sensitive areas and minimize changes to the natural topography.
 - b. Minimize impervious surface areas.
 - c. Direct roof downspouts to vegetated areas. d. Use porous or pervious pavement surfaces on the driveway, at a minimum.
 - e. Use landscaping to treat stormwater.
- UNDERSTOOD 82. UNLAWFUL DISCHARGES: It is unlawful to discharge any wastewater, or cause hazardous domestic waste materials to be deposited in such a manner or location as to constitute a threatened discharge, into storm drains, gutters, creeks or the San Francisco Bay. Unlawful discharges to storm drains include, but are not limited to: discharges from toilets, sinks, industrial processes, cooling systems, boilers, fabric cleaning, equipment cleaning or vehicle cleaning.
 - 83. DUST CONTROL: Blowing dust shall be reduced by timing construction activities so that paving and building construction begin as soon as possible after completion of grading, and by landscaping disturbed soils as soon as possible. Further, water trucks shall be present and in use at the construction site. All portions of the site subject to blowing dust shall be watered as often as deemed necessary by the Town, or a minimum of three (3) times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites in order to insure proper control of blowing dust for the duration of the project. Watering on public streets shall not occur. Streets shall be cleaned by street sweepers or by hand as often as deemed necessary by the Town Engineer, or at least once a day. Watering associated with on-site construction activity shall take place between the hours of 8 a.m. and 5 p.m. and shall include at least one (1) late-afternoon watering to minimize the effects of blowing dust. All public streets soiled or littered due to this construction activity shall be cleaned and swept on a daily basis during the workweek to the satisfaction of the Town. Demolition or earthwork activities shall be halted when wind speeds (instantaneous gusts) exceed twenty (20) miles per hour (MPH). All trucks hauling soil, sand, or other loose debris shall be covered.
 - 84. AIR QUALITY: To limit the project's construction-related dust and criteria pollutant emissions, the following the Bay Area Air Quality Management District (BAAQMD)recommended basic construction measures shall be included in the project's grading plan, building plans, and contract specifications:
 - a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day, or otherwise kept dust-free b. All haul trucks designated for removal of excavated soil and demolition debris from site shall be staged off-site until materials are ready for immediate loading and removal from site.
 - c. All haul trucks transporting soil, sand, debris, or other loose material off-site shall be covered d. As practicable, all haul trucks and other large construction equipment shall be staged in
 - areas away from the adjacent residential homes. e. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day, or as deemed appropriate by Town Engineer. The use of dry power sweeping is prohibited. An on-site track-out control device is also recommended to minimize mud and dirt-track-out onto adjacent
 - public roads. f. All vehicle speeds on unpaved surfaces shall be limited to fifteen (15) miles per hour. g. All driveways and sidewalks to be paved shall be completed as soon as possible.
 - Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. h. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective
 - action within forty-eight (48) hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations. Please provide the BAAQMD's complaint number on the sign: 24-hour toll-free hotline at 1-800-334-ODOR (6367). i. All excavation, grading, and/or demolition activities shall be suspended when average
 - wind speeds exceed twenty (20) miles per hour. j. Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in
 - disturbed areas as soon as possible and watered appropriately until vegetation is established.
 - 85. DETAILING OF STORMWATER MANAGEMENT FACILITIES: Prior to the issuance of any grading or building permits, all pertinent details of any and all proposed stormwater management facilities, including, but not limited to, ditches, swales, pipes, bubble-ups, dry wells, outfalls, infiltration trenches, detention basins and energy dissipaters, shall be provided on submitted plans, reviewed by the Engineering Division of the Parks and Public Works Department, and approved for implementation.

86. UNDERSTOOD	CONSTRUCTION ACTIVITIES: All construction shall conform to the latest requirements of the CASQA Stormwater Best Management Practices Handbooks for Construction Activitie and New Development and Redevelopment, the Town's grading and erosion control
	ordinance, and other generally accepted engineering practices for erosion control as
07	required by the Town Engineer when undertaking construction activities.
87. UNDERSTOOD	drains will be allowed. Any storm drain inlets (public or private) directly connected to
	nublic storm system shall be stepciled/signed with appropriate "NO DUMPING - Flows to
	Bay" NPDES required language On-site drainage systems for all projects shall include on
	of the alternatives included in section C 3 i of the Municipal Regional NPDES Permit The
	include storm water reuse via cisterns or rain barrels, directing runoff from impervious
	surfaces to vegetated areas and use of permeable surfaces. If stormwater treatment
	facilities are to be used they shall be placed a minimum of ten (10) feet from the adjacen
	property line and/or right-of-way. Alternatively, the facility(ies) may be located with an
	offset between 5 and 10 feet from the adjacent property and/or right-of-way line(s) if the
	responsible engineer in charge provides a stamped and signed letter that addresses
	infiltration and states how facilities, improvements and infrastructure within the Town's
	right-of-way (driveway approach, curb and gutter, etc.) and/or the adjacent property will
	not be adversely affected. No improvements shall obstruct or divert runoff to the
	detriment of an adjacent, downstream or down slope property.
88. UNDERSTOOD	MAINTENANCE OF PRIVATE STREETS: It is the responsibility of the property
	owner(s)/homeowners association to implement a plan for street sweeping of paved
	private roads and cleaning of all storm drain inlets.
89. CONTRACTOR	SILI AND MUD IN PUBLIC RIGHT-OF-WAY: It is the responsibility of Contractor and
TO PROVIDE	nomeowner to make sure that all dirt tracked into the public right-of-way is cleaned up o
	the Town's storm drains
00	COOD HOUSEKEEDING: Good housekeeping practices shall be observed at all times durin
CONTRACTOR	the course of construction. All construction shall be diligently supervised by a person or
to provide	nersons authorized to do so at all times during working hours. The Owner's representativ
	in charge shall be at the job site during all working hours. Failure to maintain the public
	right-of-way according to this condition may result in penalties and/or the Town

GENERAL:

OWNER TO PROVIDE	91. TO	NEIGHBORHOOD CONSTRUCTION COMMUNICATION PLAN: Immediately upon approv an encroachment permit, the Owner shall initiate a weekly neighborhood email notification program to provide project status updates. The email notices shall also be posted on a bulletin board placed in a prominent location along the project perimeter. THE SATISFACTION OF THE SANTA CLARA COUNTY FIRE DEPARTMENT:
CONTRACTOR TO PROVIDE	92.	Review of this Developmental proposal is limited to acceptability of site access, water

supply and may include specific additional requirements as they pertain to fire department operations and shall not be construed as a substitute for formal plan review to determine compliance with adopted model codes. Prior to performing any work, the applicant shall make application to, and receive from, the Building Department all applicable construction permits.

system shall be installed in new one- and two-family dwellings. INCLUDED IN 94. FIRE DEPARTMENT (ENGINE) DRIVEWAY TURNAROUND REQUIRED: (As noted on Sheet L1.1) Dead- end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved area for turning around fire apparatus. Provide an approved fire department engine driveway turnaround with a minimum radius of 36 feet outside and 23 feet inside. Maximum grade in any direction shall be 5%. Installations shall conform with Fire Department Standard Details and Specifications D-1. [CFC Section 503.2.5]. IN PLANGET 95. PRIVATE FIRE PROTECTION SYSTEM: (As noted on Sheet A0, A1.1 & response letter) Residential fire protection systems shall comply with Fire Department Standards W-1 and manufacturer's requirements. Fire protection water systems shall be permitted, installed and approved by the Fire Prevention Office. The wharf hydrant shall be accessible at all times. Tank systems providing both the domestic supply and supply to the sprinkler system and/or hydrant may require cross contamination protection. Check with the local Building Department for specific requirements related to protection of the domestic supply. Hydrants and tank outlets shall be installed such that the center of the hose connection is not less than eighteen (18") inches nor more than thirty (30") inches above the final grade. Proposed two new 5k gallon water tanks are not sufficient. Given project proximity to relatively urban development, water supply in accordance with NFPA 1142 is appropriate, per CFC B103.3. Preliminary NFPA 1142 calculations suggest a minimum of 20,000 gallons are necessary for the proposed structure. The proposed tank system does not meet design standard W-1 with respect to combining domestic, sprinkler and hydrant storage. Tank capacity for combined domestic/fire sprinkler systems shall be determined by adding the required hydrant and sprinkler system volume to a minimum of 1K gallons for domestic use. Water for other purposes, such as irrigation, shall not be combined in the same tank system [SCCFD Standard Details and Specifications sheet W-1]. Minimum of 20,000 gallons are required.

- b. A more detailed design proposal for the water storage system is required. c. Provide all details necessary to guarantee maintenance of the stored hydrant water for fire suppression purposes.
- INCLUDED IN 96. FIRE APPARATUS (ENGINE) ACCESS DRIVEWAY REQUIRED: (As noted on Sheet 5 of 7) Provide an access driveway with a paved all weather surface, a minimum unobstructed width of 12 feet, vertical clearance of 13 feet 6 inches, minimum circulating turning radius of 36 feet outside and 23 feet inside, and a maximum slope of 15%. Installations shall conform to Fire Department Standard Details and Specifications sheet D-1. Driveway profile provided on Sheet 5 of 6 shows slopes up to 20%. The request for slope greater than 15% but not to exceed 20%, as outlined in the Letter of Justification dated January 18, 2021 and demonstrated in the driveway profile, has been acknowledged and approved by SFPE R. Campbell on 03/09/21.

IN PLANGET 97. CONSTRUCTION SITE FIRE SAFETY: (As noted on Sheet A0) All construction sites must comply with applicable provisions of the CFC Chapter 33 and our Standard Detail and Specification S1-7. Provide appropriate notations on subsequent plan submittals, as appropriate to the project. [CFC Chp. 33]. IN PLANSET 98. WATER SUPPLY REQUIREMENTS: (As noted on Sheet A0) Potable water supplies shall be

protected from contamination caused by fire protection water supplies. It is the responsibility of the applicant and any contractors and subcontractors to contact the water purveyor supplying the site of such project, and to comply with the requirements of that purveyor. Such requirements shall be incorporated into the design of any water-based fire protection systems, and/or fire suppression water supply systems or storage containers that may be physically connected in any manner to an appliance capable of causing contamination of the potable water supply of the purveyor of record. Final approval of the system(s) under consideration will not be granted by this office until compliance with the requirements of the water purveyor of record are documented by that purveyor as having been met by the applicant(s). 2019 CFC Sec. 903.3.5 and Health and Safety Code 13114.7. IN PLANGET 99. ADDRESS IDENTIFICATION: (As noted on Sheet A0) New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the fire code

- official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address numbers shall be maintained. [CFC Sec. 505.1]. New address pending approval as noted on Sheet AO.
- UNDERSTOOD 100. GENERAL: This review shall not be construed to be an approval of a violation of the provisions of the California Fire Code or of other laws or regulations of the jurisdiction. A permit presuming to give authority to violate or cancel the provisions of the fire code or other such laws or regulations shall not be valid. Any addition to or alteration of approved construction documents shall be approved in advance. [CFC, Ch.1, 105.3.6]



Pollution Prevention — It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.

Vehicle and equipment maintenance & cleaning

Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.



✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks

✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.

✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.

✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Earthwork & contaminated soils

✓ Keep excavated soil on the site where it is least likely to collect in the street Transfer to dump trucks should take place on the site, not in the street.

✓ Use hay bales, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fastgrowing grasses as soon as possible. Place hay bales down-slope until soil is secure.

✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call your local fire department for help in determining what testing should be done.

✓ Manage disposal of contaminated soil according to Fire Department instructions.

Dewatering operations

- ✓ Reuse water for dust control, irrigation. or another on-site purpose to the greatest extent possible.
- Be sure to call your city's storm drain sediment trap may be required.
- off-site for proper disposal.

Saw cutting

- storm drain system.
- sooner!).

Paving/asphalt work



Storm drain polluters may be liable for fines of up to \$10,000 per day!



inspector before discharging water to a

street, gutter, or storm drain. Filtration or diversion through a basin, tank, or

✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled

✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, hay bales, sand bags, or fine gravel dams to keep slurry out of the

✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is

✓ If saw cut slurry enters a catch basin, clean it up immediately.

- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with hay bales, sand bags, or earthen berms.

✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.

✓ Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.



Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.





✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary

- ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
- \checkmark If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.



Tree Inventory, Assessment, **Protection Report**

> APN 510-47-045 145 Wood Road Los Gatos, CA 95032

- **Prepared for:**
- **Town of Los Gatos**

March 22, 2021

Prepared By:



Monarch Consulting Arborists

Richard Gessner

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Summary

The plans are to construct a new residence on the vacant lot and install all the required utilities. The access will largely mimic the current site ingress and egress. The inventory contains 37 trees comprised of 3 different species with 13 bay laurel (Umbellularia californica), 22 coast live oaks (Quercus agrifolia), and 2 valley oaks (Quercus lobata). Six oaks are considered Large Protected and no trees are Exempt. The trees are all in good or fair condition. None of them have been maintained as these are natural stands of trees with typical broken limbs and cavities. With the exception of trees in poor condition all have good suitability for preservation if retained within the stand. Their value is in their numbers in this instance because these are naturally occurring stands of native trees. Ten trees could be moderate to highly impacted primarily from the proposed retaining wall, driveway grading near #118, and the water and sanitary sewer bisecting the lower south stand of trees. Placing water and sewer under the driveway or directly down the slope adjacent to valley oak #128 could remove the utility issues. The retaining wall and grading around #109-#117 would need to be altered. For this project it would be best to protect the groves to the north and south of the proposed driveway and residence. There were 37 trees appraised for a rounded depreciated value of \$101,320.00.

Introduction

Background

The Town of Los Gatos asked me to assess the site, trees, and proposed footprint plan, and to provide a report with my findings and recommendations to help satisfy planning requirements.

Assignment

- Provide an arborist's report including an assessment of the trees within the project area and on the adjacent sites. The assessment is to include the species, size (trunk diameter), condition (health, structure, and form), and suitability for preservation ratings. Affix number tags on the trees for reference on site and on plans.
- Provide tree protection specifications, guidelines, and impact ratings for those affected by the project. • Provide appraised values using the Trunk Formula Technique.
- Limits of the assignment
- The information in this report is limited to the condition of the trees during my inspection on March 16, 2021. No tree
- risk assessments were performed. • Tree heights and canopy diameters are estimates.

Æ

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• The plans reviewed for this assignment were as follows (Table 1)									
Table 1: Plans Reviewed Checklist									
Plan	Date	Sheet	Reviewed	Source					
Existing Site Topographic									
Proposed Site Plan	01/25/21	A1, A1.1	Yes	Kohlsaat & Associates					
Erosion Control									
Grading and Drainage	01/15/2021	5 of 6	Yes	Hanna Brunetti					
Utility Plan and Hook-up locations	01/15/2021	4 of 6	Yes	Hanna Brunetti					
Exterior Elevations									
Landscape Plan									
Irrigation Plan									
T-1 Tree Protection Plan									

Exempt².

² A fruit or nut tree that is less than eighteen (18) inches in diameter (fifty-seven-inch circumference).

Analysis

"Trunk Formula Technique" is calculated as follows: Basic Tree Cost = (Unit tree cost x Appraised trunk area), Appraised Value = (Basic tree cost X functional Limitations (percentage) X Condition (percentage) X External Limitations (percentage)).

The trunk formula valuations are based on four tree factors; size (trunk cross sectional area), condition, functional limitations, and external limitations. There are two steps to determine the overall value. The first step is to determine the "Basic Tree Cost" based on size and unit tree cost. Unit tree cost is calculated by dividing the nursery wholesale cost of a 24 inch box specimen and its replacement size (cost per square inch trunk caliper) which is determined by the Species Classification and Group Assignment, 2004 Western Chapter Regional Supplement. The cost of the 24 inch box wholesale specimen was determined through personal communications with BrightView and Normans nurseries in Farmington and Central Wholesale in San Jose for an average of \$214.00.

The second part is to depreciate the tree's Basic Cost through an assessment of condition, functional limitations, and external limitations. The condition assessment guidelines and percentages are defined in the "Condition Rating" section of this report. Functional limitations are based on factors associated with the tree's interaction to its planting site that would affect condition, limit development, or reduce the utility in the future and include genetics, placement, and site conditions for the individual tree. External limitations are outside the property, out of control of the owner and also affect condition, limit development, or reduce the utility in the future (i.e power lines, municipal restrictions, drought adaptations, or species susceptibility to pests).

There were 37 trees appraised for a rounded depreciated value of \$101,320.00

Appraisal worksheets are available upon request

Discussion

Condition Rating

A tree's condition is a determination of its overall health. structure, and form. The assessment considered all three criteria for a combined condition rating.

- significant size, location or quality.
- for the site.

Purpose and use of the report

The report is intended to identify all the trees within the plan area that could be affected by a project. The report is to be used by the Town of Los Gatos and the property owners as a reference for existing tree conditions to help satisfy planning requirements.

Observations

Tree Inventory

The inventory consists of trees protected by the Town of Los Gatos located on site and those in close proximity on neighboring properties. Sec. 29.10.0960. - Scope of protected trees. All trees which have a four-inch or greater diameter (twelve and one half-inch circumference) of any trunk, when removal relates to any review for which zoning approval or subdivision approval is required. (Appendix A and B). Los Gatos Town Ordinance 29.10.0970 Exceptions (1) states the following: "A fruit or nut tree that is less than eighteen (18) inches in diameter (fifty-seven-inch circumference).

The plans are to construct a new residence on the vacant lot and install all the required utilities. The access will largely mimic the current site ingress and egress.

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The inventory contains 37 trees comprised of 3 different species (Chart 1). Six oaks are considered Large Protected¹ and no trees are



¹ Large protected tree means any oak (Quercus spp.), California buckeye (Aesculus californica), or Pacific madrone (Arbutus menziesii) which has a 24-inch or greater diameter (75-inch circumference); or any other species of tree with a 48-inch or greater diameter (150-inch circumference).

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Tree appraisal was performed according to the Council of Tree & Landscape Appraisers Guide for Plant Appraisal 10th Edition, 2019 (CLTA) along with Western Chapter International Society of Arboriculture Species Classification and Group Assignment, 2004. The trees were appraised using the "Cost Approach" and more specifically the "Trunk Formula Technique" (Appendix B).

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• 100% - Exceptional = Good health and structure with

• 61-80% - Good = Normal vigor, well-developed structure, function and aesthetics not compromised with good longevity

• 41-60 % - Fair = Reduced vigor, damage, dieback, or pest problems, at least one significant structural problem or multiple moderate defects requiring treatment. Major asymmetry or deviation from the species normal habit,

function and aesthetics compromised. • 21-40% - Poor = Unhealthy and declining appearance with poor vigor, abnormal foliar color, size or density with

potential irreversible decline. One serious structural defect or multiple significant defects that cannot be corrected and failure may occur at any time. Significant asymmetry and compromised aesthetics and intended use.

• 6-20% - Very Poor = Poor vigor and dving with little foliage in irreversible decline. Severe defects with the likelihood of failure being probable or imminent. Aesthetically poor with little or no function in the landscape.

• 0-5% - Dead/Unstable = Dead or imminently ready to fail.

The trees are all in good or fair condition. None of them have been maintained as these are natural stands of trees with typical broken limbs and cavities. Eighteen are in good shape which are mostly smaller specimens and eighteen fair as they are older and have typical issues for mature trees.



Suitability for Conservation

A tree's suitability for preservation is determined based on Functional and External Limitations³ (ISA, 2019).

- Good = Trees with good health, structural stability and longevity.
- Fair = Trees with fair health and/or structural defects that may be mitigated through treatment. These trees require more intense management and monitoring, and may have shorter
- life spans than those in the good category. • Poor = Trees in poor health with significant structural defects that cannot be mitigated and will continue to decline regardless of treatment. The species or individual may
- possess characteristics that are incompatible or undesirable in landscape settings or unsuited for the intended use of the site.

With the exception of trees in poor condition all the trees have good suitability for preservation if retained within the stand. As individuals none of the trees particularly stand out as exemplary specimens. Their value is in their numbers in this instance because these are naturally occurring stands of native trees.

³ Functional Limitations are based on factors associated with the tree's interaction to its planting site affecting plant condition, limiting plant development, or reducing the utility in the future and include genetics, placement, and site conditions for the individual tree (ISA, 2019). External Limitations are outside the property, out of control of the owner and also affect plant condition, limit plant development, or reduce the utility in the future (i.e power lines, municipal restrictions, drought adaptations, or species susceptibility to pests) (ISA, 2019). Monarch Consulting Arborists LLC - P.O Box 1010, Felton, CA 95018 Page 6 of 27 831.331.8982 - rick@monarcharborist.com

The plan below indicates the area of expected impacts (Image 1). Highlighted in red are the areas where modifications could alleviate some issues. Running the water and sanitary sewer under the driveway or directly down the slope adjacent to valley oak #128 would remove the utility issues. The retaining wall and grading around #109-#117 would need to be altered.



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Tree Protection

Typically there are three different tree protection schemes which are called Type I (Appendix D1), Type II and Type III (Appendix D2) trunk protection only. Tree protection focuses on avoiding damage to the roots, trunk, or scaffold branches (Appendix D). The most current accepted method for determining the TPZ is to use a formula based on species tolerance, tree age/vigor, and trunk diameter (Matheny, N. and Clark, J. 1998) (Fite, K, and Smiley, E. T., 2016). Preventing mechanical damage to the trunk from equipment or hand tools can be accomplished by wrapping the main stem with straw wattle or using vertical timbers (Appendix D).

There are two primary stands of trees on this site so there will not be any individual tree protection schemes. For this project it would be best to protect the groves to the north and south of the proposed driveway and residence.

Conclusion

The plans are to construct a new residence on the vacant lot and install all the required utilities. The access will largely mimic the current site ingress and egress. The inventory contains 37 trees comprised of 3 different species with 13 bay laurel, 22 coast live oaks, and 2 valley oaks. Six oaks are considered Large Protected and no trees are Exempt. The trees are all in good or fair condition. None of them have been maintained as these are natural stands of trees with typical broken limbs and cavities. Eighteen are in good shape which are mostly smaller specimens and eighteen fair as they are older and have typical issues for mature trees. With the exception of trees in poor condition all have good suitability for preservation if retained within the stand. As individuals none of the trees particularly stand out as exemplary specimens. Their value is in their numbers in this instance because these are naturally occurring stands of native trees. Ten trees could be moderate to highly impacted primarily from the proposed retaining wall near #115 - #117, driveway grading near #118, and the water and sanitary sewer bisecting the lower stand near trees #120 through #128. Running the water and sanitary sewer under the driveway or directly down the slope adjacent to valley oak #128 would remove the utility issues. The retaining wall and grading around #109-#117 would need to be altered. There are two primary stands of trees on this site so there will not be any individual tree protection schemes. For this project it would be best to protect the groves to the north and south of the proposed driveway and residence. There were 37 trees appraised for a rounded depreciated value of \$101,320.00.

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- plans. Produce a T-1 plan sheet to reflect the tree numbers provided in Appendix A and B of this report. Added tree numbers to site plan.
- 2. Consider relocating the utilities to an area that does not bisect the southern grove of trees, possibly follow the driveway. Ran joint trench around grove of trees
- 3. Consider adjusting the grading at the driveway radius to avoid the tree on both sides. Adjusted grading at driveway radius.
- areas Added tree protection fence around grove.
- local regulations. All maintenance is to be performed according to ISA Best Management Practices. Added note to title sheet regarding all tree maintenance.
- or architect. It is the responsibility of the owner to ensure all parties are familiar with this document. Provided a copy of this report to all contractors & project managers.
- correct materials, and at the proper distances.

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Expected Impact Level

Impact level defines how a tree may be affected by construction activity and proximity to the tree, and is described as low, moderate, or high. The following scale defines the impact

- Low = The construction activity will have little influence on the tree.
- Moderate = The construction may cause future health or structural problems, and steps must be taken to protect the tree to reduce future problems.
- High = Tree structure and health will be compromised and removal is recommended, or other actions must be taken for the tree to remain. The tree is located in the building envelope.

Ten trees could be moderate to highly impacted primarily from the proposed retaining wall near #115 - #117, driveway grading near #118, and the water and sanitary sewer bisecting the lower stand near trees #120 through #128.

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1. Place tree numbers and tree protection fence locations and guidelines on the plans including the grading, drainage, and utility

4. Place tree protection fence at the drip line radius around both the north and south stands of trees and eliminate grading in these

5. All tree maintenance and care shall be performed by a qualified arborist with a C-61/D-49 California Contractors License. Tree maintenance and care shall be specified in writing according to American National Standard for Tree Care Operations: *Tree, Shrub* and Other Woody Plant Management: Standard Practices parts 1 through 10 and adhere to ANSI Z133.1 safety standards and

6. Provide a copy of this report to all contractors and project managers, including the architect, civil engineer, and landscape designer

7. Arrange a pre-construction meeting with the project arborist or landscape architect to verify tree protection is in place, with the

Provided photos of tree protection to planning department as well as pre-construction meeting with all parties.

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Arboriculture, 2016.

condition depreciation.

the tree trunk, roots or branches.



145 Wood Road

A

Tree Inventory, Assessment and Protection Report

March 22, 2021

Appendix B: Tree Inventory and Assessment Tables

Table 3: Inventory and Assessment Summary								
Tree Species	I.D. #	Trunk Diameter (in.)	~ Canopy Diameter (ft.)	Condition	Suitability	Expected Impact	Protection Status	Rounded Depreciated Value
valley oak (Quercus agrifolia)	101	24	45	Fair/50%	Fair	Low	Large Protected	\$5,700.00
bay laurel (<i>Umbellularia</i> californica)	102	12, 6	15	Fair/50%	Fair	Low	Protected	\$1,950.00
bay laurel (<i>Umbellularia</i> californica)	103	9	15	Good/70%	Good	Low	Protected	\$1,130.00
coast live oak (Quercus agrifolia)	104	16, 16, 16, 12		Fair/50%	Fair	Low	Large Protected	\$9,000.00
coast live oak (Quercus agrifolia)	105	18	35	Good/70%	Good	Low	Protected	\$4,510.00
coast live oak (Quercus agrifolia)	106	18	25	Fair/50%	Fair	Low	Protected	\$3,220.00
coast live oak (Quercus agrifolia)	107	20	35	Fair/50%	Fair	Low	Protected	\$3,980.00
bay laurel (<i>Umbellularia</i> californica)	108	16	25	Good/70%	Good	Low	Protected	\$3,560.00
coast live oak (Quercus agrifolia)	109	10	20	Good/70%	Good	Low	Protected	\$1,390.00
coast live oak (Quercus agrifolia)	110	18	25	Good/70%	Good	Low	Protected	\$4,510.00
coast live oak (Quercus agrifolia)	111	6	15	Good/70%	Good	Low	Protected	\$500.00

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I.D. #	Trunk Diameter (in.)	~ Canopy Diameter (ft.)	Condition	Suitability	Expected Impact	Protection Status	Rounded Depreciated Value
112	6	15	Good/70%	Good	Low	Protected	\$500.00
113	27	45	Good/70%	Good	Low	Large Protected	\$10,200.00
114	8	20	Good/70%	Good	Low	Protected	\$890.00
115	2, 4	12	Fair/	Fair	Low	Protected	\$250.00
116	4, 4 multi	12	Fair/	Fair	Moderate- High	Protected	\$250.00
117	9, 6	25	Fair/	Fair	Moderate- High	Protected	\$1,200.00
118	12, 12	35	Fair/	Fair	Moderate- High	Large Protected	\$2,870.00
119	20, 26	45	Fair/	Fair	Low	Large Protected	\$10,800.00
120	8	20	Good/70%	Good	Moderate- High	Protected	\$890.00
121	12	25	Good/70%	Good	Moderate- High	Protected	\$2,010.00
122	6	10	Good/70%	Good	Moderate- High	Protected	\$500.00
123	8	20	Good/70%	Good	Moderate- High	Protected	\$890.00
124	11	20	Good/70%	Good	Moderate- High	Protected	\$1,680.00
	I.D. # 112 113 113 114 115 116 117 118 119 120 121 122 123 124	I.D. #Trunk Diameter (in.)11261132711481152, 41164, 4 multi1179, 611812, 1211920, 261208121121226123812411	I.D. #Trunk Diameter (in.)~ Canopy Diameter (ft.)11261511327451148201152, 4121164, 4 multi121179, 62511812, 123511920, 264512082012112251226101238201241120	I.D. # Trunk Diameter (in.) Canopy Diameter (ft.) Condition 112 6 15 Good/70% 113 27 45 Good/70% 114 8 20 Good/70% 115 2,4 12 Fair/ 116 4,4 multi 12 Fair/ 117 9,6 25 Fair/ 118 12,12 35 Fair/ 119 20,26 45 Fair/ 120 8 20 Good/70% 121 12 25 Good/70% 121 12 25 Good/70% 121 12 6 10 Good/70% 123 8 20 Good/70% 124 124 11 20 Good/70% 124	I.D. # Trunk Diameter (in.) ~ Canopy Diameter (ft.) Condition Suitability 112 6 15 Good/70% Good 113 27 45 Good/70% Good 114 8 20 Good/70% Good 115 2,4 12 Fair/ Fair 116 4,4 multi 12 Fair/ Fair 117 9,6 25 Fair/ Fair 118 12,12 35 Fair/ Fair 119 20,26 45 Fair/ Fair 120 8 20 Good/70% Good 121 12 25 Good/70% Good 120 8 20 Good/70% Good 121 12 25 Good/70% Good 121 12 6 10 Good/70% Good 123 8 20 Good/70% Good Good 124	I.D. #Trunk Diameter (in.)Canopy Diameter (ft.)ConditionSuitabilityExpected Impact112615Good/70%GoodLow1132745Good/70%GoodLow114820Good/70%GoodLow1152,412Fair/FairLow1164,4 multi12Fair/FairModerate- High1179,625Fair/FairModerate- High11812, 1235Fair/FairModerate- High120820Good/70%GoodModerate- High1211225Good/70%GoodModerate- High123820Good/70%GoodModerate- High1241120Good/70%GoodModerate- High	I.D. #Trunk Diameter (in.)Canopy Diameter (tt.)ConditionSuitabilityExpected ImpactProtection Status112615Good/70%GoodLowProtected1132745Good/70%GoodLowLarge Protected114820Good/70%GoodLowProtected1152, 412Fair/FairLowProtected1164, 4 multi12Fair/FairModerate- HighProtected1179, 625Fair/FairModerate- HighProtected11812, 1235Fair/FairModerate- HighProtected11920, 2645Fair/FairLowLarge Protected1211225Good/70%GoodModerate- HighProtected123820Good/70%GoodModerate- HighProtected1241120Good/70%GoodModerate- HighProtected

Tree Species	I.D. #	Trunk Diameter (in.)	~ Canopy Diameter (ft.)	Condition	Suitability	Expected Impact	Protection Status	Rounded Depreciated Value
bay laurel (<i>Umbellularia</i> californica)	125	9	20	Good/70%	Good	Moderate- High	Protected	\$1,130.00
coast live oak (Quercus agrifolia)	126	7	20	Fair/50%	Fair	Moderate- High	Protected	\$490.00
coast live oak (Quercus agrifolia)	127	12, 12	35	Fair/50%	Fair	Low	Large Protected	\$2,870.00
valley oak (Quercus agrifolia)	128	24	40	Fair/50%	Fair	Low	Large Protected	\$5,700.00
coast live oak (Quercus agrifolia)	129	12	25	Good/70%	Good	Low	Protected	\$2,010.00
bay laurel (<i>Umbellularia</i> californica)	130	5, 5	20	Fair/50%	Fair	Low	Protected	\$640.00
bay laurel (<i>Umbellularia</i> californica)	131	8	15	Good/70%	Good	Low	Protected	\$890.00
bay laurel (<i>Umbellularia</i> californica)	132	8	15	Poor/15	Poor	Low	Protected	\$380.00
coast live oak (Quercus agrifolia)	133	13, 18, 18	45	Fair/50%	Fair	Low	Large Protected	\$7,800.00
bay laurel (<i>Umbellularia</i> californica)	134	7, 11, 10	30	Fair/50%	Fair	Low	Protected	\$2,550.00
bay laurel (<i>Umbellularia</i> californica)	135	6	15	Good/70%	Good	Low	Protected	\$500.00
bay laurel (<i>Umbellularia</i> californica)	136	12	30	Fair/50%	Fair	Low	Protected	\$1,430.00
coast live oak (Quercus agrifolia)	137	16	30	Fair/50%	Fair	Low	Protected	\$2,550.00
奥	Monai	rch Consulting	Arborists LLC	- P.O Box 101	I0, Felton, CA	95018		Page 16 of (

Appendix C: Photographs C1: North stand



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nded ciated lue 30.00 90.00 70.00

10.00 10.00 90.00 30.00 00.00

50.00 00.00 30.00 50.00

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C2: South stand



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Appendix D: Tree Protection Guidelines

D1: Plan Sheet Detail S-X (Type I)

D2: Plan Sheet Detail S-Y (Type III)



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SECTION VIEW

TRUNK PROTECTION WITH WATTLE

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D3: Section 29.10.1005. - Protection of Trees During Construction

Tree Protection Zones and Fence Specifications

- 1. Size and materials: Six (6) foot high chain link fencing, mounted on two-inch diameter galvanized iron posts, shall be driven into the ground to a depth of at least two (2) feet at no more than ten-foot spacing. For paving area that will not be demolished and when stipulated in a tree preservation plan, posts may be supported by a concrete base.
- 2. Area type to be fenced: Type I: Enclosure with chain link fencing of either the entire dripline area or at the tree protection zone (TPZ), when specified by a certified or consulting arborist. Type II: Enclosure for street trees located in a planter strip: chain link fence around the entire planter strip to the outer branches. Type III: Protection for a tree located in a small planter cutout only (such as downtown): orange plastic fencing shall be wrapped around the trunk from the ground to the first branch with two-inch wooden boards bound securely on the outside. Caution shall be used to avoid damaging any bark or branches. 3. Duration of Type I, II, III fencing: Fencing shall be erected before demolition, grading or construction permits are issued and
- remain in place until the work is completed. Contractor shall first obtain the approval of the project arborist on record prior to removing a tree protection fence. 4. Warning Sign: Each tree fence shall have prominently displayed an eight and one-half-inch by eleven-inch sign stating: "Warning
- —Tree Protection Zone—This fence shall not be removed and is subject to penalty according to Town Code 29.10.1025." Text on the signs should be in both English and Spanish (Appendix E).

145 Wood Road APN 510-47-045

Tree Inventory, Assessment and Protection Report

All persons, shall comply with the following precautions

- 1. Prior to the commencement of construction, install the fence at the dripline, or tree protection zone (TPZ) when specified in an approved arborist report, around any tree and/or vegetation to be retained which could be affected by the construction and prohibit any storage of construction materials or other materials, equipment cleaning, or parking of vehicles within the TPZ. The dripline shall not be altered in any way so as to increase the encroachment of the construction.
- Prohibit all construction activities within the TPZ, including but not limited to: excavation, grading, drainage and leveling within the dripline of the tree unless approved by the Director.
- 3. Prohibit disposal or depositing of oil, gasoline, chemicals or other harmful materials within the dripline of or in drainage channels, swales or areas that may lead to the dripline of a protected tree.
- 4. Prohibit the attachment of wires, signs or ropes to any protected tree.
- 5. Design utility services and irrigation lines to be located outside of the dripline when feasible.
- 6. Retain the services of a certified or consulting arborist who shall serve as the project arborist for periodic monitoring of the project site and the health of those trees to be preserved. The project arborist shall be present whenever activities occur which may pose a potential threat to the health of the trees to be preserved and shall document all site visits.
- The Director and project arborist shall be notified of any damage that occurs to a protected tree during construction so that proper treatment may be administered.

Prohibited Activities

The following are prohibited activities within the TPZ:

• Grade changes (e.g. soil cuts, fills);

• Trenches; • Root cuts;

- Pedestrian and equipment traffic that could compact the soil or physically damage roots;
- Parking vehicles or equipment; • Burning of brush and woody debris;
- Storing soil, construction materials, petroleum products, water, or building refuse; and,
- Disposing of wash water, fuel or other potentially damaging liquids.

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Monitoring		

wonitoring

Any trenching, construction or demolition that is expected to damage or encounter tree roots should be monitored by the project arborist or a qualified ISA Certified Arborist and should be documented.

The site should be evaluated by the project arborist or a qualified ISA Certified Arborist after construction is complete, and any necessary remedial work that needs to be performed should be noted.

Root Pruning

Roots greater than two inches in diameter shall not be cut. When roots over two inches in diameter are encountered and are authorized to be cut or removed, they should be pruned by hand with loppers, handsaw, reciprocating saw, or chain saw rather than left crushed or torn. Roots should be cut beyond sinker roots or outside root branch junctions and be supervised by the project arborist. When completed, exposed roots should be kept moist with burlap or backfilled within one hour.

Boring or Tunneling

Boring machines should be set up outside the drip line or established Tree Protection Zone. Boring may also be performed by digging a trench on both sides of the tree until roots one inch in diameter are encountered and then hand dug or excavated with an Air Spade® or similar air or water excavation tool. Bore holes should be adjacent to the trunk and never go directly under the main stem to avoid oblique (heart) roots. Bore holes should be a minimum of three feet deep.

Tree Pruning and Removal Operations

All tree pruning or removals should be performed by a qualified arborist with a C-61/D-49 California Contractors License. Treatment, including pruning, shall be specified in writing according to the most recent ANSI A-300A Standards and Limitations and performed according to ISA Best Management Practices while adhering to ANSI Z133.1 safety standards. Trees that need to be removed or pruned should be identified in the pre-construction walk through.

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Qualifications, Assumptions, and Limiting Conditions

Any legal description provided to the consultant is assumed to be correct. Any titles or ownership of properties are assumed to be good and marketable. All property is appraised or evaluated as though free and clear, under responsible ownership and competent management.

All property is presumed to be in conformance with applicable codes, ordinances, statutes, or other regulations.

Care has been taken to obtain information from reliable sources. However, the consultant cannot be responsible for the accuracy of information provided by others.

The consultant shall not be required to give testimony or attend meetings, hearings, conferences, mediations, arbitration, or trials by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services.

This report and any appraisal value expressed herein represent the opinion of the consultant, and the consultant's fee is not contingent upon the reporting of a specified appraisal value, a stipulated result, or the occurrence of a subsequent event.

Sketches, drawings, and photographs in this report are intended for use as visual aids, are not necessarily to scale, and should not be construed as engineering or architectural reports or surveys. The reproduction of information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is only for coordination and ease of reference. Inclusion of said information with any drawings or other documents does not constitute a representation as to the sufficiency or accuracy of said information.

Unless otherwise expressed: a) this report covers only examined items and their condition at the time of inspection; and b) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that structural problems or deficiencies of plants or property may not arise in the future.

R

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Certification of Performance

I Richard Gessner, Certify:

That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and/or appraisal is stated in the attached report and Terms of Assignment;

That I have no current or prospective interest in the vegetation or the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved;

That the analysis, opinions and conclusions stated herein are my own;

That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted Arboricultural practices;

That no one provided significant professional assistance to the consultant, except as indicated within the report.

That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any other subsequent events;

I further certify that I am a Registered Consulting Arborist® with the American Society of Consulting Arborists, and that I acknowledge, accept and adhere to the ASCA Standards of Professional Practice. I am an International Society of Arboriculture Board Certified Master Arborist®. I have been involved with the practice of Arboriculture and the care and study of trees since 1998.

Richard J. Gessner put man for the sources

ASCA Registered Consulting Arborist® #496 ISA Board Certified Master Arborist® WE-4341B



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owi	N OF LOS GATOS STAND	ARD GRADING NOTES	
1.	ALL WORK SHALL CONF THE ADOPTED CALIFOR SPECIFICATIONS FOR PU ON THESE PLANS AND D	ORM TO CHAPTER 12 (NIA BUILDING CODE A JBLIC WORKS CONSTRI DETAILS.	OF THE CODE OF THE TOWN OF LOS GA ND THE LATEST EDITION OF THE STAND JCTION EXCEPT AS SPECIFIED OTHERWI
2.	NO WORK MAY BE STAF GRADING PERMIT ISSUI DEPARTMENT LOCATED	RTED ON-SITE WITHOU ED BY THE TOWN OF LO AT 41 MILES AVENUE,	T AN APPROVED GRADING PLAN AND A DS GATOS, PARKS AND PUBLIC WORKS LOS GATOS, CA 95030.
3.	A PRE-JOB MEETING SH THE PARKS AND PUBLIC CONTRACTOR SHALL CA FORTY-EIGHT (48) HOU SHOULD INCLUDE: a. A DISCUSSION OF TH	HALL BE HELD WITH TH C WORKS DEPARTMEN ALL THE INSPECTIONS IRS PRIOR TO ANY GRA HE PROJECT CONDITIO	E TOWN ENGINEERING INSPECTOR FRO IT PRIOR TO ANY WORK BEING DONE. LINE AT (4080 399-5771 AT LEAST IDING OR ONSITE WORK. THIS MEETIN NS OF APPROVAL, WORKING HOURS, S
	b. ACKNOWLEDGEMEN AND UNDERSTAND CERTAIN THAT ALL F THEM PRIOR TO CO CONDITIONS OF API CONSTRUCTION.	OTHER CONSTRUCTION NT IN WRITING THAT O THE PROJECT CONDITI PROJECT SUB-CONTRA MMENCING WORK AN PROVAL WILL BE POST	IN MATTERS; CONTRACTOR AND APPLICANT HAVE RE ONS OF APPROVAL, AND WILL MAKE CTORS HAVE READ AND UNDERSTAND ID THAT A COPY OF THE PROJECT ED ON SITE AT ALL TIMES DURING
4.	APPROVAL OF PLANS D THE CORRECTION OF M DURING THE COURSE O AND SAFETY REQUIRES SPECIFICATIONS OR THI FULL AUTHORITY TO RE MANNER IN WHICH THI	OES NOT RELEASE THE IISTAKES, ERRORS, OR (F CONSTRUCTION OF T A MODIFICATION OR E ESE IMPROVEMENT PL QUIRE SUCH MODIFIC/ E SAME IS TO BE MADE	DEVELOPER OF THE RESPONSIBILITY FO OMISSIONS CONTAINED THEREIN. IF, THE IMPROVEMENTS, PUBLIC INTEREST DEPARTURE FROM THE TOWN ANS, THE TOWN ENGINEER SHALL HAVE ATION OR DEPARTURE AND TO SPECIFY
5.	APPROVAL OF THIS PLA AND COMPACTION OF ANY RIGHTS OF ENTRY OTHERS AND DOES NO	N APPLIES ONLY TO TH NATURAL EARTH MATE TO EITHER PUBLIC PRO T CONSTITUTE APPROV	E GRADING, EXCAVATION, PLACEMENT RIALS. THIS APPROVAL DOES NOT CON PERTY OR THE PRIVATE PROPERTY OF AL OF ANY OTHER IMPROVEMENTS.
6.	EXCAVATED MATERIAL HAULED AWAY FROM T	SHALL BE PLACED IN TH THE SITE TO BE DISPOSE	HE FILL AREAS DESIGNATED OR SHALL B ED OF AT APPROVED LOCATION(S).
7.	IT SHALL BE THE RESPO LOCATE AND PROTECT SHALL NOTIFY USA (UN FORTY-EIGHT (48) HOU COMMENCING ALL WO	NSIBILITY OF THE PERN ALL UNDERGROUND FA DERGROUND SERVICE RS BUT NOT MORE THA RK.	AITTEE OR CONTRACTOR TO IDENTIFY, ACILITIES. PERMITTEE OR CONTRACTOR ALERT) AT 1-800-227-2600 A MINIMUM AN FOURTEEN (14) DAYS PRIOR TO
8.	ALL GRADING SHALL BE STANDARDS ESTABLISH PARTICULATES.	PERFORMED IN SUCH ED BY THE AIR QUALIT	A MANNER AS TO COMPLY WITH THE Y MANAGEMENT DISTRICT FOR AIRBOR
9.	THE CONTRACTOR SHA RULES AND REGULATIO SHALL INCLUDE, WITHC ESTABLISHED BY OR PU ANY OTHER APPLICABLI	LL COMPLY WITH ALL L NS GOVERNING THE W OUT LIMITATION, SAFET RSUANT TO THE OCCU E PUBLIC AUTHORITY.	OCAL, STATE AND FEDERAL LAWS, COD ORK IDENTIFIED ON THESE PLANS. THE Y AND HEALTH RULES AND REGULATIO PATIONAL SAFETY AND HEALTH ACT OR
10.	THE GENERAL CONTRA	CTOR SHALL PROVIDE (CONSTRUCTION.	QUALIFIED SUPERVISION ON THE JOB SI
11.	HORIZONTAL AND VERT SURVEYOR OR REGISTE FOR THE FOLLOWING IT a. RETAINING WALL: TO	FICAL CONTROLS SHALI RED CIVIL ENGINEER Q FEMS: OP OF WALL ELEVATIOI	. BE SET AND CERTIFIED BY A LICENSED UALIFIED TO PRACTICE LAND SURVEYIN NS AND LOCATIONS (ALL WALLS TO BE
	PERMITTED SEPARA DIVISION). b. TOE AND TOP OF CU	TELY AND APPLIED FOR IT AND FILL SLOPES.	AT THE TOWN OF LOS GATOS BUILDIN
12.	PRIOR TO ISSUANCE OF THE FINAL GRADING AN FOUNDATIONS, RETAIN ACCORDANCE WITH TH THE APPLICANT'S SOILS TOWN EITHER BY LETTE SOILS ENGINEER: C2 EA REFERENCE REPORT NO	ANY PERMIT, THE APP ND DRAINAGE PLANS TO ING WALLS, SITE GRAD EIR RECOMMENDATIO ENGINEER'S APPROVA ER OR BY SIGNING THE RTH, INC. 210919C-01R1, DATE	LICANT'S SOILS ENGINEER SHALL REVIEN O ENSURE THAT DESIGNS FOR NNG, AND SITE DRAINAGE ARE IN NS AND THE PEER REVIEW COMMENTS IL SHALL THEN BE CONVEYED TO THE PLANS. D APRIL 28, 2021
	LETTER NO. 1 Grading a THOROUGHLY COMPLIE UPDATES/ADDENDUMS LETTERS ARE HEREBY A	nd Drainage Plan Revie ED WITH. BOTH THE M 6/ PPENDED AND MADE A	ew, DATED AUGUST 26, 2021, SHALL BE ENTIONED REPORT AND ALL A PART OF THIS GRADING PLAN.
13.	DURING CONSTRUCTIO APPLICANT'S SOILS ENG FORTY-EIGHT (48) HOU ON-SITE TO VERIFY THA DESIGN-LEVEL GEOTECH THE REPORT RECOMME UNAPPROVED GRADING OBSERVANCE (THE TOW CHANGES PRIOR TO WO	N, ALL EXCAVATIONS A GINEER. THE ENGINEER RS BEFORE BEGINNING IT THE ACTUAL CONDIT HNICAL REPORT AND/C ENDATIONS, AS NECESS G SHALL BE REMOVED A VN INSPECTOR SHALL E DRK BEING PERFORMEI	ND GRADING SHALL BE INSPECTED BY T SHALL BE NOTIFIED AT LEAST ANY GRADING. THE ENGINEER SHALL F TONS ARE AS ANTICIPATED IN THE OR PROVIDE APPROPRIATE CHANGES TO SARY. ALL UNOBSERVED AND/OR AND REPLACED UNDER SOILS ENGINEER OF MADE AWARE OF ANY REQUIRED O).
14.	THE RESULTS OF THE CO DOCUMENTED IN AN "A ENGINEER AND SUBMIT RELEASE OF ANY OCCUI	ONSTRUCTION OBSERV AS-BUILT" LETTER/REPO TED FOR THE TOWN'S PANCY PERMIT IS GRAM	ATION AND TESTING SHOULD BE ORT PREPARED BY THE APPLICANTS' SOI REVIEW AND ACCEPTANCE BEFORE FIN ITED.
15.	ALL PRIVATE AND PUBL A SAFE, DRIVABLE CONI IS NEEDED, THEN FORM TOWN OF LOS GATOS P LEAST ONE (1) WEEK IN WITHOUT THE EXPRESS EQUIPMENT SHALL BE S	IC STREETS ACCESSING DITION THROUGHOUT IAL WRITTEN NOTICE T PARKS AND PUBLIC WO ADVANCE OF CLOSUR WRITTEN APPROVAL (STORED IN THE PUBLIC	PROJECT SITE SHALL BE KEPT OPEN AN CONSTRUCTION. IF TEMPORARY CLOSU O THE ADJACENT NEIGHBORS AND THE RKS DEPARTMENT SHALL BE PROVIDED E AND NO CLOSURE SHALL BE GRANTED OF THE TOWN. NO MATERIAL OR OR PRIVATE RIGHT-OF-WAY.
16.	THE CONTRACTOR SHA THAT ARE NECESSARY T AT ALL TIMES.	LL INSTALL AND MAINT O GIVE ADEQUATE WA	AIN FENCES, BARRIERS, LIGHTS AND SIG ARNING AND/PROTECTION TO THE PUB
17.	OWNER/APPLICANT: KA	AVITA BOUKNIGHT	PHONE: <u>510.456.8167</u>
18.	GENERAL CONTRACTOR	R: <u>TBD</u>	PHONE:
10			

REV.: DEC. 2015

PLAN FOR THE IMPROVEMENT OF **GRADING & DRAINAGE PLANS**

144 WOOD ROAD - APN 510-47-045 TOWN OF LOS GATOS



OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, R WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR L SOLE NEGLIGENCE OF THE OWNER OR ENGINEER. <u>NOTE:</u>

ADVANCE NOTICE SHALL BE PROVIDED TO NEIGHBORING PROPERTY OWNERS HEAVY CONSTRUCTION ACTIVITIES AND HEAVY CONSTRUCTION SHALL NOT S ON DAYS WHEN SCHOOLS ARE IN SESSION. NO CONSTRUCTION IS ALLOWED

BASIS OF BEARINGS

THE BEARINGS ON THESE PLANS ARE BASED ON THE FOUND MONUMENTS PROPERTY LINE WITH A BEARING OF NORTH 21° 31' 04" EAST PER RECORDI 23477967.

BENCHMARK

BENCHMARK ID: BM1003 ORGANIZATION: SANTA CLARA VALLEY WATER DISTRICT ELEVATION: 412.80 FEET (NAVD88)

DESCRIPTION: BRASS DISK ON TOP OF CONCRETE SIDEWALK; AT THE SOUTH CORNER OF INTERSECTION FOR S SANTA CRUZ AVENUE AND W MAIN STREET; ABOUT 100 FEET SOUTHWEST FROM CENTERLINE FOR W MAIN STREET; NEAR A PUBLIC BUS STOP; RESET IN 2007. TOWN OF LOS GATOS.

FLOODZONE STATEMENT

COMMUNITY PANEL NUMBER: 06085C0376H MAP REVISED: MAY 18, 2009

PROJECT IS LOCATED IN ZONE X

ZONE X AN AREA INUNDATED BY 500-YEAR FLOODING: AN AREA INUNDATED BY 100-YEAR FLOODING WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; OR AN AREA PROTECTED BY LEVEES FROM 100-YEAR FLOODING.

N AND A MORKS	PERMITS AND METHODS OF TREE PRESERVATION SHALL BE REQUIRED. TREE REMOVAL PERMITS ARE REQUIRED PRIOR TO THE APPROVAL OF ALL PLANS.
TOR FROM DONE. THE ST	23. A TOWN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. A STATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK WITHIN STATE RIGHT-OF-WAY (IF APPLICABLE). THE PERMITTEE AND/OR CONTRACTOR SHALL BE RESPONSIBLE COORDINATING INSPECTION PERFORMED BY OTHER GOVERNMENTAL AGENCIES.
IOURS, SITE HAVE READ MAKE	24. NO CROSS-LOT DRAINAGE WILL BE PERMITTED WITHOUT SATISFACTORY STORMWATER ACCEPTANCE DEED/FACILITIES. ALL DRAINAGE SHALL BE DIRECTED TO THE STREET OR OTHER ACCEPTABLE DRAINAGE FACILITY VIA A NON-EROSIVE METHOD AS APPROVED BY THE TOWN ENGINEER.
RSTAND CT NG	25. IT IS THE RESPONSIBILITY OF CONTRACTOR AND/OR OWNER TO MAKE SURE THAT ALL DIRT TRACKED INTO THE PUBLIC RIGHT-OF-WAY IS CLEANED UP ON A DAILY BASIS. MUD, SILT, CONCRETE AND OTHER CONSTRUCTION DEBRIS SHALL NOT BE WASHED INTO THE TOWN'S STORM DRAINS.
BILITY FOR IN. IF, ITEREST ALL HAVE SPECIFY THE CEMENT, IOT CONFER	26. GOOD HOUSEKEEPING PRACTICES SHALL BE OBSERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. SUPERINTENDENCE OF CONSTRUCTION SHALL BE DILIGENTLY PERFORMED BY A PERSON OR PERSONS AUTHORIZED TO DO SO AT ALL TIMES DURING WORKING HOURS. THE STORING OF GOODS AND/OR MATERIALS ON THE SIDEWALK AND/OR THE STREET WILL NOT BE ALLOWED UNLESS A SPECIAL PERMIT IS ISSUED BY THE ENGINEERING DIVISION. THE ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAR OF ALL JOB RELATED DIRT AND DEBRIS AT THE END OF THE DAY. FAILURE TO MAINTAIN THE PUBLIC RIGHT-OF-WAY ACCORDING TO THIS CONDITION MAY RESULT IN PENALTIES AND/OR THE TOWN PERFORMING THE REQUIRED MAINTENANCE AT THE DEVELOPER'S EXPENSE.
SHALL BE (S).	27. GRADING SHALL BE UNDERTAKEN IN ACCORDANCE WITH CONDITIONS AND REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION CONTROL PLAN AND/OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE TOWN OF LOS GATOS STORM WATER QUALITY MANAGEMENT PROGRAM, NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND ANY OTHER PERMITS/REQUIREMENTS ISSUED BY THE STATE OF CALLEORNIA DECIONAL WATER OLIAUTY CONTROL POARD. PLANS

21. WATER SHALL BE AVAILABLE ON THE SITE AT ALL TIMES DURING GRADING OPERATIONS

TO PROPERLY MAINTAIN DUST CONTROL

THE STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. PLANS (INCLUDING ALL UPDATES) SHALL BE ON-SITE AT ALL TIMES. NO DIRECT STORMWATER DISCHARGES FROM THE DEVELOPMENT WILL BE ALLOWED ONTO TOWN STREETS OR INTO THE PUBLIC STORM DRAIN SYSTEM WITHOUT TREATMENT BY AN APPROVED STORM WATER POLLUTION PREVENTION DEVICE OR OTHER APPROVED METHODS. MAINTENANCE OF PRIVATE STORMWATER POLLUTION PREVENTION DEVICES SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER. DISCHARGES OR CONNECTION WITHOUT TREATMENT BY AN APPROVED AND ADEQUATELY OPERATING STORMWATER POLLUTION PREVENTION DEVICE OR OTHER APPROVED METHOD SHALL BE CONSIDERED A VIOLATION OF THE ABOVE REFERENCED PERMIT AND THE TOWN OF LOS GATOS STORMWATER ORDINANCE.

TOWN OF LOS GATOS NPDES NOTES

- 1. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
- 2. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
- 3. APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILL OR RESIDES SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
- 4. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR TO THE LOCAL STORM DRAIN SYSTEM.
- 5. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES (BMPS) AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
- 6. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
- 7. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTE OR POLLUTANTS OFF OF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT OR THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES, HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND
- SUPERCHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. 8. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING
- GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.

R 21-354

RESPONSIBILITY FOR JOB SITE
INCLUDING SAFETY OF ALL
TINUOUSLY AND NOT BE LIMITED
END, INDEMNIFY AND HOLD THE
REAL OR ALLEGED, IN CONNECTION
LIABILITY ARISING FROM THE

S AND SCHOOLS OF START BEFORE 8:30 AM		
D ON SUNDAYS.	AB	AGGREGATE BASE
	AC	ASPHALT CONCRET
	AD	AREA DRAIN
	ARV	AIR RELEASE VALVE
	BC	BACK OF CURB
	BFP	BACKFLOW PREVEN
ALONG THE WESTERLY	BW	BOTTOM OF WALL
DED DOCUMENT NUMBER	CATV	CABLE TELEVISION
	CB	CATCH BASIN
	CFS	CUBIC FEET PER SEC
	C/L	CENTERLINE
	CMP	CORRUGATED MET
	CO	CLEANOUT
	CY	CUBIC YARD
	DCVA	DOUBLE CHECK VAL
	DI	DROP INLET
	DIA	DIAMETER
	DIP	DUCTILE IRON PIPE
	DWY	DRIVEWAY
	(E)	EAST
	EG	EXISTING GRADE
	ELEC	ELECTRICAL
	EP	EDGE OF PATH
	EVAE	EMERGENCY VEHIC
	EX	EXISTING
	FC	FACE OF CURB
	FDC	FIRE DEPARTMENT
	FF	FINISHED FLOOR EL

NTER COND TAL PIPE ALVE ASSEMBLY CLE ACCESS EASEMENT CONNECTION LEVATION FINISHED GRADE FG FH FIRE HYDRANT FLOW LINE FL FORCED MAIN FM FIRE SERVICE FS FT FEET GAS G



SHEET INDEX

- TOWN NOTES, PROJECT DATA & ABBREVIATIONS
- EXISTING TOPOGRAPHIC SURVEY
- SITE & UTILITY PLAN AND LEGEND
- **GRADING & DRAINAGE PLAN 20 SCALE** DRIVEWAY PROFILE
- **GRADING & DRAINAGE PLAN 10 SCALE**
- **CONSTRUCTION MANAGEMENT & EROSION CONTROL PLAN**

TABLE OF F	PROPOSED PERV	IOUS AND IM	PERVIOUS AR	E/		
TOTAL SITE AREA: 29,632 SF	TOTAL SITE AREA (INCLUDING CLEAI	DISTURBED: 14,6 RING, GRADING O	37 SF R EXCAVATING)			
	PROPOSED AREA (SF)					
	AREA (SF)	REPLACED	NEW	Ρ		
IMPERVIOUS AREA	0	0	8,227 SF			
TOTAL NEW & REPLACED IN	8,227 SF					
PERVIOUS AREA	29,632 SF	21,405 SF	0			

	ADDITEVIATIONS		
GA	GAUGE	R/W	RIGHT-OF-WAY
GB	GRADE BREAK	(S)	SOUTH
GM	GAS METER	S	SLOPE
GS	GAS SERVICE	SCC	SANTA CLARA COUNTY
HDPE	HIGH-DENSITY POLYETHYLENE	SCCFD	SANTA CLARA COUNTY F
HP	HIGH POINT	SD	STORM DRAIN
IEE	INGRESS/EGRESS EASEMENT	SDCO	STORM DRAIN CLEANOU
IN	INCH	SDE	STORM DRAIN EASEMEN
INV	INVERT ELEVATION	SDMH	STORM DRAIN MANHOL
LAT	LATERAL	SDR	STANDARD DIMENSION
LG	LIP OF GUTTER	SF	SQUARE FEET
LP	LOW POINT	SJWC	SAN JOSE WATER COMP.
MAX	MAXIMUM	SS	SANITARY SEWER
MH	MANHOLE	SSCO	SANITARY SEWER CLEAN
MIN	MINIMUM	SSE	SANITARY SEWER EASEM
MPH	MILES PER HOUR	SSMH	SANITARY SEWER MANH
(N)	NORTH	STD	STANDARD
N.T.S.	NOT TO SCALE	S/W	SIDEWALK
0.C.	ON CENTER	TC	TOP OF CURB
O.D.	OUTSIDE DIAMETER	TELE	TELEPHONE
PAD	PAD ELEVATION	TLG	TOWN OF LOS GATOS
PCC	PORTLAND CEMENT CONCRETE	TW	TOP OF WALL
PERF	PERFORATED	TYP	TYPICAL
PG&E	PACIFIC GAS & ELECTRIC COMPANY	VCP	VITRIFIED CLAY PIPE
PIEE	PRIVATE INGRESS/EGRESS EASEMENT	(W)	WEST
PL	PROPERTY LINE	W	WATER
PR	PROPOSED	WM	WATER METER
PSDE	PRIVATE STORM DRAIN EASEMENT	WS	WATER SERVICE
PSE	PUBLIC SERVICE EASEMENT	WV	WATER VALVE
PSSE	PRIVATE SANITARY SEWER EASEMENT	WVSD	WEST VALLEY SANITATIC
PUE	PUBLIC UTILITY EASEMENT	XING	CROSSING
PVC	POLYVINYL CHLORIDE		
R	RADIUS		
RCP	REINFORCED CONCRETE PIPE		

RIM RIM ELEVATION







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LL HAVE INLET TORM DRAIN CATCH	LE: NOV	AWN:	ECK:	5R:	DJECT NO.:
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CK, 3″ IN DIAMETER, TRANCE DETAIL TC-1". BE AS SHOWN ON					KS DEPARTMEI
GETATIVE STABILIZATION OPRIATE EROSION S MIGRATION. HE EROSION CONTROL HE QSD. STREET IMPROVEMENTS. RIS. THE SITE SHALL	VOOD ROAD	INT &		LAN	4 PARKS AND PUBLIC WOR
HE END OF EACH DAY. LETS" (AND OTHER SPOSED BY SPREADING SHALL BE RESPOSIBILE	DVEMENT OF	7-045		I KUL P	ATION GR21-35
S PLAN. SAID DRAIN R TO DISCHARGE TO LTING METHODS,	PLAN FOR THE IMPRI OUKNIGHT	APN 510-4		UNCON	GRADING PERMIT APPLIC
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OPENABLE WINDOW AREA

OPENABLE WINDOW AREA IN HABITABLE ROOMS MUST BE 4% OF THE FLOOR AREA FOR VENTILATION. EMERGENCY ESCAPE OPENINGS IN HABITABLE ROOMS SHALL BE 5 SF AT GRADE LEVEL ROOMS & 5.7 SF AT ALL OTHER LEVELS, WITH MIN. DIMENSIONS OF 24" HIGH AND 20" WIDE & SHALL NOT EXCEED 44" ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPENABLE FROM INSIDE TO PROVIDE A FULL, CLEAR OPENING WITHOUT THE USE OF SEPARATE TOOLS. ALL EGRESS WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED & OPERABLE FROM THE LOWEST LATCH. R303.1, R310,

GLAZING CERTIFICATION ALL NEW GLAZING (FENESTRATIONS) WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE U-VALUE.

EXTERIOR DOORS ALL EXTERIOR DOORS SHALL BE SOLID CORE DOORS W/ STILES & RAILS NOT LESS THAN 13° " Thick & Field Panels not less than 14° " Thick. All glazing shall be DUAL GLAZED & TEMPERED

- SAFETY GLAZING GLAZING IN THE FOLLOWING LOCATIONS SHALL BE OF SAFETY GLAZING MATERIAL IN ACCORDANCE WITH CRC SECTION R308.4: a) FIXED & SLIDING PANELS OF SLIDING DOOR ASSEMBLIES & PANELS IN
- a) FIXED & SLIDING PANELS OF SLIDING DOOK ASSEMBLIES & FANELS IN SWINGING DOORS.
 b) ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR WHEN CLOSED & THE BOTTOM EDGE IS WITHIN 60" ABOVE THE WALKING SURFACE
 c) DOORS, EXTERIOR WINDOWS & ENCLOSURES FOR BATHTUBS & SHOWERS & IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60
- NCHES ABOVE A STANDING SURFACE & DRAIN OUTLET. e) GLAZING WHERE THE AREA OF THE INDIVIDUAL PANE IS MORE THAN 9 SQUARE FEET, THE BOTTOM EDGE IS LESS THAN 18 INCHES FROM THE FLOOR, THE TOP EDGE IS GREATER THAN 36 INCHES ABOVE THE FLOOR & ONE OR MORE WALKING SURFACES IS WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.
- SHOWER WINDOWS WINDOWS IN SHOWERS SHALL BE MADE FROM MATERIALS THAT ARE NOT ADVERSELY AFFECTED BY MOISTURE. GLAZING SHALL BE TEMPERED. CRC R307.2

WOODEN BACKING MINIMUM 2"X8" WOODEN BACKING SHALL BE PROVIDED IN ALL BATHROOM WALLS AT WATER CLOSETS, SHOWERS, BATHTUBS & TOWEL BAR WALLS LOCATED 34" FROM THE FLOOR. FURTHER, PROVIDE BACKING FOR GRAB BARS FOR TOILETS ON FIRST FLOOR.

FINISHES PROVIDE 5/8" GYP. BOARD AT ALL INTERIOR WALL & CEIL'G LOCATIONS. INTERIOR WALL AND CEILING PAINTS SHALL BE LOW-VOC (100 GPL VOCS (NON-FLAT) AND (150 VOCS (NON-FLAT GLOSS)) WOOD FINISHES SHALL BE LOW VOC, WATER BASED ((250 GPL VOCS) CAULK & CONSTRUCTION ADHESIVES SHALL BE LOW VOC ((70 GPL VOCS) TO REDUCE FORMALDEHYDE IN INTERIOR FINISHES A MINIMUM OF 50% OF INTERIOR TRIM SHALL BE POPLAR OR ALDER ACCESS

UNDER FLOOR: ACCESS SHALL BE PROVIDED TO ALL UNDER-FLOOR SPACES. ACCESS OPENINGS THROUGH THE FLOOR SHALL BE A MINIMUM 18" X 24". OPENINGS THROUGH A PERIMETER WALL SHALL BE NOT LESS THAN 16" X 24". R408.4

BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQ. FEET 4 HAVE A VERTICAL HEIGHT OF 30" OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE A LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. WHEN THE ACCESS IS LOCATED IN A CEILING, MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30" AT SOME POINT ABOVE THE ATTIC ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF THE CEILING FRAMING MEMBERS, R807. LANDING

FLOORS & LANDING AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4" UNIT VERTICAL IN 12 UNIT HORIZONTAL (2%) R311.3 RESIDENTIAL TOWN ACCESSIBILITY STANDARDS

- THE RESIDENCE SHALL BE DESIGNED WITH ADAPTABILITY FEATURES FOR A SINGLE FAMILY RESIDENCE PER TOWN RESOLUTION 1994-61: A. MOODEN BACKING (2" X 8" MINIMUM) SHALL BE PROVIDED IN ALL BATHROOM WALLS, AT WATER CLOSETS, SHOWERS AND BATHTUBS AT 34" FROM THE FLOOR
- TO THE CENTER OF THE BACKING, SUITABLE FOR THE INSTALLATION OF GRAB B. ALL PASSAGE DOORS SHALL BE AT LEAST 32" WIDE ON THE ACCESSIBLE FLOOR. C. PRIMARY ENTRANCE SHALL BE A 36" WIDE DOOR MINIMUM INCLUDING A 5'X5' LEVEL LANDING, NO MORE THAN 1" OUT OF PLANE WITH THE IMMEDIATE INTERIOR
- FLOOR LEVEL WITH AN 18" CLEARANCE AT THE INTERIOR STRIKE EDGE. D. DOOR BUZZER, BELL OR CHIME SHALL BE HARD WIRED AT PRIMARY ENTRANCE.

WILDLAND-URBAN INTERFACE

ROOF VALLEYS: VALLEYS & GUTTERS SHALL BE 26 GAUGE GALV. SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF 72LB MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36" WIDE THE FULL LENGTH OF THE VALLEY. GUTTERS WILL HAVE THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES & DEBRIS IN THE GUTTER. AS REQ'D PER SEC. R337.5.3 & R337.5.4 TYP. VENTS:

WHERE PROVIDED, VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, & UNDERFLOOR VENTILATION SHALL BE IN ACCORDANCE WITH SECTION 1203 OF THE CBC & SECTIONS R337.6.1 THROUGH R337.6.3 OF THIS SECTION TO RESIST BUILDING IGNITION FROM THE INTRUSION OF BURNING EMBERS & FLAME THROUGH THE VENTILATION OPENING. R337.6.1

EXTERIOR WALLS: EXTERIOR WALL COVERINGS SHALL BE APPROVED NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL & EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF & TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE. R337.7.3

ENCLOSED EAVES & EAVE SOFFITS THE EXPOSED UNDERSIDE OF ENCLOSED EAVES HAVING EITHER A BOXED-IN EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE, OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OF THE FOLLOWING:

- NONCOMBUSTIBLE MATERIAL. IGNITION RESISTANT MATERIAL.
- ONE LAYER OF $\frac{5}{8}$ " TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE RAFTER TAILS OR THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR WALL ASSEMBLY APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR
- SOFFIT INCLUDING ASSEMBLIES USING THE GYPSUM PANEL & SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL BOXED IN EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE
- THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN EITHER OF THE FOLLOWING: 5.1 SFM STANDARD 12-7A-3 OR ASTME2957 EXCEPTIONS: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION
- 1. GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS. 2. FASCIA & OTHER ARCHITECTURAL TRIM BOARDS. CBC R337.7.5

UNDERFLOOR PROTECTION: UNDERFLOOR AREAS SHALL MAINTAIN THE IGNITION-RESISTANT INTEGRITY OF EXTERIOR WALLS. PER SEC. R337.7.8 TYP.

EXTERIOR GLAZING: EXTERIOR GLAZING SHALL BE INSULATING GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE. PER R337.8.2

EXTERIOR DOORS: EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SFM 12-7A-1 OR SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION, OR SOLID CORE WOOD HAVING STILES & RAILS NOT LESS THAN 13%" THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 114" THICK, OR SHALL HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MIN. PER R337.8.3

GUTTER SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. CBC R337.5.4

- OPEN ROOF EAVES THE EXPOSED ROOF DECK ON THE UNDERSIDE OF UNENCLOSED ROOF EAVES SHALL CONSIST OF ONE OF THE FOLLOWING: NONCOMBUSTIBLE MATERIAL IGNITION RESISTANT MATERIAL
- ONE LAYER OF 5/8" TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK. THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR
- WAL ASSEMBLY APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR EXTERIOR FIRE EXPOSURE INCLUDING ASSEMBLIES USING THE GYPSUM PANEL & SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL EXCEPTIONS:
- SOLID WOOD RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION
- SOLID WOOD BLOCKING INSTALLED BETWEEN RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION OF 2".
- GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS.
- FASCIA & OTHER ARCHITECTURAL TRIM BOARDS CBC R337.7.4

- A1.0 STRUCTURE
- A1.1 4" NOM. STUD WALL $^{
 m J}$ 3 $^{
 m 1\!2}$ " Th. Stud Wall From 2X studs @ 16" O.C.
- A1.2 6" NOM. STUD WALL $^{--1}$ 5½" Th. Stud Wall From 2X studs @ 16" O.C.
- A1.3 8" NOM. STUD WALL \sim 71/4" THICK STUD WALL FROM 2X STUDS @ 16" O.C.
- A1.4 10" NOM. STUD WALL - 9%" Th. Stud Wall From 2X studs @ 16" O.C.
- A1.5 6" CONCRETE RETAINING WALL W/2X WOOD WALL -- 6" Concrete retaining wall W/ $\frac{1}{2}$ " gap W/2X flat Lay Studs @
- A1.6 8" CONCRETE RETAINING WALL W/2X WOOD WALL $^{--1}$ 8" concrete retaining wall w/m %" gap w/2x flat lay studs @
- A1.7 12" CONCRETE RETAINING WALL W/2X4 STUD WALL
- 12" CONCRETE RETAINING WALL W/ $\frac{1}{2}$ " GAP W/2X4 STUDS @ 16" O.C. A1.8 UNDER FLOOR ACCESS 18" X 24" OPENING IN FLOOR OR 16" X 24" IN PERIMETER WALL. R408.4
- A1.9 EXTERIOR LANDINGS FLOORS & LANDINGS AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED
- LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2%). CRC R311.3 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOOR SHALL NOT BE MORE THAN 1" LOWER THAN THE TOP OF THE THRESHOLD. EXCEPTION: THE EXTERIOR LANDING OR FLOOR SHALL NOT BE MORE THAN 7 3/4" BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR CRC R311.3.1 A1.10 TEMPERED GLASS
- SEE ARCHITECTURAL NOTE FOR SAFETY GLAZING PROTECTION OF WOOD & WOOD
- BASED PRODUCTS AGAINST DECAY LOCATION REQUIRED: PROTECTION OF WOOD & WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWEA UT FOR THE SPECIES, PRODUCT, PRESERVATIVE & END USE. PRESERVATIVE SHALL BE LISTED IN SECTION 4 OF AMPA U1.
- MOOD SIDING, SHEATHING & WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS, & SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER. R317.1 A1.12 STAIRMAYS:
- 2 DIAIRVAT D: STAIRVAYS: WIDTH. STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT & BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4½" ON EITHER SIDE OF THE STAIRWAY & THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT & BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS & LANDINGS, SHALL NOT BE LESS THAN 31½" WHERE A HANDRAIL IS INSTALLED ON ONE CIDE 4 OT WHERE A HANDRAIL IS INSTALLED ON ONE SIDE & 27" WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES. THE MAXIMUM RISER HEIGHT SHALL BE 7%.". THE MINIMUM TREAD DEPTH SHALL BE 10". AT STAIRS WITH MORE THAN THREE RISERS, PROVIDE MIN. ONE 11/4" ϕ to 2" ϕ stair handrail 34" to 38" above STAIR NOSING WITH NO SHARP EDGES. HANDRAIL BY 10 50 FOUND STAIR NOSING WITH NO SHARP EDGES. HANDRAILS MAY PROJECT A MAX. OF 4½" INTO REQUIRED WIDTH OF STAIRWAY & SHALL PROVIDE 1½" SPACE BETWEEN WALL & HANDRAIL. HANDRAILS SHALL BE CONTINUOUS FROM TOP TO BOTTOM & TERMINATE AT NEWEL POSTS OR RETURN TO WALL. PROVIDE BALUSTERS, WHERE DECUMPED CICH THAT A 43" DUA CRUEPE CANNOT PAGE THEOLOGIC
- REACH POSIS OR RETURN TO MALL. PROVIDE BALISTERS, MHERE REQUIRED SUCH THAT A 4%" DIA. SPHERE CANNOT PASS THROUGH. HANDRAILS MITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1%" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 6%" with a MAXIMUM CROSS SECTION OF 2%". EDGES SHALL HAVE A MINIMUM PADING OF ON CORCERNING
- RADIUS OF .01".CRC R311.7 A1.13 LOWER TO MAIN FLOOR STAIR $^{
 m J}$ 19 RISERS 7" 18 TREADS 10 $^{
 m 1}\!\!4$ " measured 12" from inside edge
- A1.14 MAIN TO SECOND FLOOR STAIR 17 RISERS 7" 16 TREADS 12" WITH 2 INTERMEDIATE LANDINGS
- A1.15 HANDRAIL @ STAIR AT STAIRS WITH MORE THAN THREE RISERS, PROVIDE MIN. ONE 11/2"D TO 2" Φ STAIR HANDRAIL 34" TO 38" ABOVE STAIR NOSING WITH NO SHARP EDGES. HANDRAILS MAY PROJECT A MAX. OF 4½" INTO REQUIRED WIDTH OF STAIRWAY & SHALL PROVIDE 1/2" SPACE BETWEEN WALL & HANDRAIL. HANDRAILS SHALL BE CONTINUOUS FROM TOP TO BOTTOM & TERMINATE AT NEWEL POSTS OR RETURN TO WALL. PROVIDE BALUSTERS, WHERE REQUIRED SUCH THAT A 4% DIA. SPHERE CANNOT PASS THROUGH. RAIL FABRICATOR SHALL
- PROVIDE SHOP DRINGS, SPECS, & CALCS FOR APPROVAL BY ARCHITECT. CRC R312 A1.16 GUARDS @ BALCONY PROVIDE 42" H. GUARDRAIL AT LANDINGS, WALKWAYS, BALCONIES \sharp Similar Walking surfaces with adjacent openings more than ABOVE FLOOR OR GRADE BELOW, PROVIDE BALUSTERS SPACED SUCH THAT A 4" DIA. SPHERE CANNOT PASS THROUGH. RAL FABRICATOR SHALL PROVIDE SHOP DRWGS, SPECS, & CALCS FOR APPROVAL BY ARCHITECT. CRC R312
- A1.17 FRONT DOOR PRIMARY ENTRANCE SHALL BE A 36" WIDE DOOR MINIMUM INCLUDING A 5'X5' LEVEL LANDING, NO MORE THAN 1" OUT OF PLANE WITH THE IMMEDIATE INTERIOR FLOOR LEVEL WITH AN 18" CLEARANCE AT THE INTERIOR STRIKE EDGE.
- A1.18 KPATIO STAIR TAIR AT PATIO FROM MAIN FLOOR TO UPPER FLOOR SHALL HAVE A1.19 KLIGHT WELL STAIR
- STAIR AT SOUTH SIDE LIGHT WELL SHALL HAVE A 6 ½" RISE X 11" RUN W/HANDRAIL ON AT LEAST ONE SIDE. A2.0 FINISHES
- A2.1 5%" GYPSUM BOARD 5%" GYPSUM BOARD SHALL BE APPLY THROUGH OUT THE RESIDENCE. TYP. U.O.N.
- A2.2 5%" TYPE "X" GYPSUM BOARD 5%" TYPE "X" GYPSUM BOARD AT GARAGE CEILING
- A2.2 STONE VENEER ADHERED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. R703.12 CLEARANCES ON EXTERIOR VENEER WALLS SHALL BE, 4" MIN. ABOVE EARTH, 2" ABOVE PAVED AREAS, ½" ABOVE EXTERIOR WALKING SURFACES WHICH ARE SUPPORTED BY THE FOUNDATION THAT SUPPORTS THE EXTERIOR WALLS. R703.12.1
- A3.0 FENESTRATION SOLID CORE DOOR
- PROVIDE SOLID CORE 20 MIN. RATED DOOR WITH SELF CLOSER AND WEATHER STRIPPING, TIGHTLY SEAL TO CREATE AIR BARRIER A3.2 SAFETY GLASS SHOWER DOORS
- PROVIDE FULLY TEMPERED, LAMINATED SAFETY GLASS SHOWER ENCLOSURE AND DOOR. SHOWER DOOR SHALL HAVE A MIN. CLEAR FINISHED OPENING OF 22" MIN.
- A3.3 EGRESS WINDOW MERGENCY ESCAPE OPENINGS IN HABITABLE ROOMS SHALL BE S EMERGENCY ESCAPE OPENINGS IN HABITABLE ROOMS SHALL BE 5 SF AT GRADE LEVEL & 5.7 SF AT ALL OTHER LEVELS, WITH MIN. DIMENSION OF 24" HIGH & 20" WIDE & SHALL NOT EXCEED 44" CLEAR OPENING ABOVE FINISHED FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPENABLE FROM INSIDE TO PROVIDE A FULL, CLEAR OPENING WITHOUT THE USE OF SEPARATE TOOLS. ALL EGREE WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED & OPERABLE FROM THE LOWEST LATCH. R310 LATCH. R310
- A3.4 ANY EXTERIOR VENTS ANY EXTERIOR WALL OR DOOR VENTS SHALL BE COVERED W/ CORROSION-RESISTANT WIRE MESH W/MESH OPENINGS OF 1/16TH" MIN. & 1/8TH" MAX. CRC § R337.6.2 A3.5 GARAGE DOOR
- WHEN VISIBLE GAPS EXCEED 1/4" BETWEEN DOORS & DOOR OPENINGS AT THE BOTTOM, SIDES, & TOPS OF DOORS, SUCH GAPS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING METHODS: A. MEATHER-STRIPPING LISTED IN ACCORDANCE WITH THE TESTING CRITERIA OF CRC § R337.8.4. PROVIDE MANUFACTURER'S SPECIFICATIONS SHOWING COMPLIANCE
- WITH CRITERIA & NOT THE MANUFACTURER'S NAME & WEATHER-STRIPPING TYPE ON THE PLANS. CRC § R337.8.4,
- OPTION #2 GARAGE DOOR JAMBS & HEADERS COVERED WITH METAL FLASHING. CRC § R337.8.4, OPTION #3
- BUILT-IN VANITY

- CONFIG. PER INT. DESIGNER

- BUILT-IN ENCLOSED VANITY

- A4.6 PANTRY SHELVES

A4.0 CABINETRY

- UPPER & LOWER CABINETS AND COUNTERTOPS POLES & SHELVES, CONFIG. PER INT. DESIGNER
- LOWER CABINETS W/COUNTER & SEATING AREA
- A4.5 ISLAND COUNTER

- DOOR OVERLAPS ONTO JAMBS & HEADERS. CRC § R337.8.4,
- A4.2 BUILT-IN CABINETS
- A4.3 CLOSETS

LEGEND	
	MOOD STUD MALL
	CONCRETE REC. MALL
	PAVED OUTDOOR DECK / PATIOS
	Paved Yard Areas
	ROOF COVERING

OPENABLE WINDOW AREA

OPENABLE WINDOW AREA IN HABITABLE ROOMS MUST BE 4% OF THE FLOOR AREA FOR VENTILATION. EMERGENCY ESCAPE OPENINGS IN HABITABLE ROOMS SHALL BE 5 SF AT GRADE LEVEL ROOMS & 5.7 SF AT ALL OTHER LEVELS, WITH MIN. DIMENSIONS OF 24" HIGH AND 20" WIDE & SHALL NOT EXCEED 44" ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPENABLE FROM INSIDE TO PROVIDE A FULL, CLEAR OPENING WITHOUT THE USE OF SEPARATE TOOLS. ALL EGRESS WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED & OPERABLE FROM THE LOWEST LATCH. R303.1, R310,

GLAZING CERTIFICATION ALL NEW GLAZING (FENESTRATIONS) WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE U-VALUE.

EXTERIOR DOORS ALL EXTERIOR DOORS SHALL BE SOLID CORE DOORS W/ STILES & RAILS NOT LESS THAN 13%" THICK & FIELD PANELS NOT LESS THAN 14" THICK. ALL GLAZING SHALL BE DUAL GLAZED & TEMPERED

- SAFETY GLAZING GLAZING IN THE FOLLOWING LOCATIONS SHALL BE OF SAFETY GLAZING MATERIAL IN ACCORDANCE WITH CRC SECTION R308.4: a) FIXED & SLIDING PANELS OF SLIDING DOOR ASSEMBLIES & PANELS IN
- SWINGING DOORS. b) ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR WHEN CLOSED & THE BOTTOM
- EDGE IS MITHIN 60" ABOVE THE WALKING SURFACE C) DOORS, EXTERIOR WINDOWS & ENCLOSURES FOR BATHTUBS & SHOWERS & IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 NCHES ABOVE A STANDING SURFACE & DRAIN OUTLET
- e) GLAZING WHERE THE AREA OF THE INDIVIDUAL PANE IS MORE THAN 9 SQUARE FEET, THE BOTTOM EDGE IS LESS THAN 18 INCHES FROM THE FLOOR, THE TOP EDGE IS GREATER THAN 36 INCHES ABOVE THE FLOOR & ONE OR MORE WALKING SURFACES IS WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING. SHOWER WINDOWS

WINDOWS IN SHOWERS SHALL BE MADE FROM MATERIALS THAT ARE NOT ADVERSELY AFFECTED BY MOISTURE. GLAZING SHALL BE TEMPERED. CRC R307.2 WOODEN BACKING

MINIMUM 2"X8" WOODEN BACKING SHALL BE PROVIDED IN ALL BATHROOM WALLS AT WATER CLOSETS, SHOWERS, BATHTUBS & TOWEL BAR WALLS LOCATED 34" FROM THE FLOOR. FURTHER, PROVIDE BACKING FOR GRAB BARS FOR TOILETS ON FIRST FLOOR. FINISHES

PROVIDE 5/8" GYP. BOARD AT ALL INTERIOR WALL & CEIL'G LOCATIONS. INTERIOR WALL AND CEILING PAINTS SHALL BE LOW-VOC (<100 GPL VOCS (NON-FLAT) AND <150 VOCS (NON-FLAT GLOSS)) WOOD FINISHES SHALL BE LOW VOC, MATER BASED (250 GPL VOCS) CAULK & CONSTRUCTION ADHESIVES SHALL BE LOW VOC ((TO GPL VOCS) TO REDUCE FORMALDEHYDE IN INTERIOR FINISHES A MINIMUM OF 50% OF INTERIOR TRIM SHALL BE POPLAR OR ALDER ACCESS

UNDER FLOOR: ACCESS SHALL BE PROVIDED TO ALL UNDER-FLOOR SPACES. ACCESS OPENINGS THROUGH THE FLOOR SHALL BE A MINIMUM 18" X 24". OPENINGS THROUGH A PERIMETER WALL SHALL BE NOT LESS THAN 16" X 24". R403.4

BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 5Q. FEET & HAVE A VERTICAL HEIGHT OF 30" OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE A LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. WHEN THE ACCESS IS LOCATED IN A CEILING, MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30" AT SOME POINT ABOVE THE ATTIC ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF THE CEILING FRAMING MEMBERS, R807. LANDING

FLOORS & LANDING AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4" UNIT VERTICAL IN 12 UNIT HORIZONTAL (2%) R311.3

- RESIDENTIAL TOWN ACCESSIBILITY STANDARDS THE RESIDENCE SHALL BE DESIGNED WITH ADAPTABILITY FEATURES FOR A SINGLE FAMILY RESIDENCE PER TOWN RESOLUTION 1994-61: A. WOODEN BACKING (2" X 8" MINMUM) SHALL BE PROVIDED IN ALL BATHROOM WALLS, AT WATER CLOSETS, SHOWERS AND BATHTUBS AT 34" FROM THE FLOOR
- TO THE CENTER OF THE BACKING, SUITABLE FOR THE INSTALLATION OF GRAB B. ALL PASSAGE DOORS SHALL BE AT LEAST 32" WIDE ON THE ACCESSIBLE FLOOR. C. PRIMARY ENTRANCE SHALL BE A 36" WIDE DOOR MINIMUM INCLUDING A 5'X5" LEVEL LANDING, NO MORE THAN 1" OUT OF PLANE WITH THE IMMEDIATE INTERIOR FLOOR LEVEL WITH AN 18" CLEARANCE AT THE INTERIOR STRIKE EDGE D. DOOR BUZZER, BELL OR CHIME SHALL BE HARD WIRED AT PRIMARY ENTRANCE.

WILDLAND-URBAN INTERFACE

ROOF VALLEYS: KOOF VALLEYS: VALLEYS & GUTTERS SHALL BE 26 GAUGE GALV. SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF 72LB MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36" WIDE THE FULL LENGTH OF THE VALLEY. GUTTERS WILL HAVE THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES & DEBRIS IN THE GUTTER. AS REQ'D PER SEC. R337.5.3 & R337.5.4 TYP. VENTS. VENTS

WHERE PROVIDED, VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, & UNDERFLOOR VENTILATION SHALL BE IN ACCORDANCE WITH SECTION 1203 OF THE CBC & SECTIONS R337.6.1 THROUGH R337.6.3 OF THIS SECTION TO RESIST BUILDING IGNITION FROM THE INTRUSION OF BURNING EMBERS & FLAME THROUGH THE VENTILATION OPENING. R337.6.1

EXTERIOR WALLS: EXTERIOR WALL COVERINGS SHALL BE APPROVED NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL & EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF & TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE. R337.7.3

ENCLOSED EAVES & EAVE SOFFITS: THE EXPOSED UNDERSIDE OF ENCLOSED EAVES HAVING EITHER A BOXED-IN EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE, OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE PAETER TAILS SHALL BE DEDITECTED BY ONE OF UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OF THE FOLLOWING:

- NONCOMBUSTIBLE MATERIAL. IGNITION RESISTANT MATERIAL.
- ONE LAYER OF $\frac{5}{8}$ " TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE RAFTER TAILS OR THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR WALL
- ASSEMBLY APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT INCLUDING ASSEMBLIES USING THE GYPSUM PANEL \pounds SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL BOXED IN EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE
- THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN EITHER OF THE FOLLOWING: 5.1 SFM STANDARD 12-7A-3 OR ASTME2957 EXCEPTIONS: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION
- 1. GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS. 2. FASCIA & OTHER ARCHITECTURAL TRIM BOARDS. CBC R337.7.5

UNDERFLOOR PROTECTION: UNDERFLOOR AREAS SHALL MAINTAIN THE IGNITION-RESISTANT INTEGRITY OF EXTERIOR WALLS. PER SEC. R337.7.8 TYP.

EXTERIOR GLAZING: EXTERIOR GLAZING SHALL BE INSULATING GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE. PER R337.8.2

EXTERIOR DOORS: EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SFM 12-7A-1 OR SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION, OR SOLID CORE WOOD HAVING STILES & RAILS NOT LESS THAN 13%" THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 114" THICK, OR SHALL HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MIN. PER R337.8.3

GUTTER SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. CBC R337.5.4

- OPEN ROOF EAVES THE EXPOSED ROOF DECK ON THE UNDERSIDE OF UNENCLOSED ROOF EAVES SHALL CONSIST OF ONE OF THE FOLLOWING: NONCOMBUSTIBLE MATERIAL
- IGNITION RESISTANT MATERIAI ONE LAYER OF 5%" TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK. THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR
- WAL ASSEMBLY APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR EXTERIOR FIRE EXPOSURE INCLUDING ASSEMBLIES USING THE GYPSUM PANEL & SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL. EXCEPTIONS:
- SOLID WOOD RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION
- SOLID WOOD BLOCKING INSTALLED BETWEEN RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION OF 2". GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS
- BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS.
- FASCIA & OTHER ARCHITECTURAL TRIM BOARDS CBC R337.7.4

- A1.0 STRUCTURE
- $^{\prime}$ 3 $^{\prime}_2$ " Th. Stud wall from 2X studs @ 16" O.C.
- A1.2 6" NOM. STUD WALL $^{--1}$ 5½" Th. Stud Wall From 2X studs @ 16" O.C.
- A1.3 8" NOM. STUD WALL ---- 7 $\frac{1}{4}$ " Thick stud wall from 2X studs @ 16" O.C.
- A1.4 10" NOM. STUD WALL - 9%" Th. Stud Wall From 2X studs @ 16" O.C.
- A1.5 6" CONCRETE RETAINING WALL W/2X WOOD WALL - 6" concrete retaining wall W/2" gap W/2X flat lay studs @
- A1.6 8" CONCRETE RETAINING WALL W/2X WOOD WALL
- A1.7 12" CONCRETE RETAINING WALL W/2X4 STUD WALL
- 12" CONCRETE RETAINING WALL W/ $\frac{1}{2}$ " GAP W/2X4 STUDS @ 16" O.C.
- A1.8 UNDER FLOOR ACCESS 18" X 24" OPENING IN FLOOR OR 16" X 24" IN PERIMETER WALL. R408.4 A1.9 EXTERIOR LANDINGS
- FLOORS & LANDINGS AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR BERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 NCHES MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2%). CRC R311.3 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS. LANDINGS OR
- A1.10 TEMPERED GLASS SEE ARCHITECTURAL NOTE FOR SAFETY GLAZING PROTECTION OF WOOD & WOOD BASED PRODUCTS AGAINST DECAY
 - LOCATION REQUIRED PROTECTION OF WOOD & WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AMPA UT FOR THE SPECIES, PRODUCT, PRESERVATIVE & END USE. PRESERVATIVE SHALL BE LISTED IN SECTION 4 OF AMPA U1.
 - WOOD SIDING, SHEATHING & WALL FRAMING ON THE EXTERIOR OF A BUILDING, SHEATHING & WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS, & SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER. R317.1

OPENABLE WINDOW AREA

OPENABLE WINDOW AREA IN HABITABLE ROOMS MUST BE 4% OF THE FLOOR AREA FOR VENTILATION. EMERGENCY ESCAPE OPENINGS IN HABITABLE ROOMS SHALL BE 5 SF AT GRADE LEVEL ROOMS & 5.7 SF AT ALL OTHER LEVELS, WITH MIN. DIMENSIONS OF 24" HIGH AND 20" WIDE & SHALL NOT EXCEED 44" ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPENABLE FROM INSIDE TO PROVIDE A FULL, CLEAR OPENING WITHOUT THE USE OF SEPARATE TOOLS. ALL EGRESS WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED & OPERABLE FROM THE LOWEST LATCH. R303.1, R310,

GLAZING CERTIFICATION ALL NEW GLAZING (FENESTRATIONS) WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE U-VALUE.

EXTERIOR DOORS ALL EXTERIOR DOORS SHALL BE SOLID CORE DOORS, W/ STILES & RAILS NOT LESS THAN 13° " THICK & FIELD PANELS NOT LESS THAN 14° " THICK. ALL GLAZING SHALL BE DUAL GLAZED & TEMPERED

- SAFETY GLAZING GLAZING IN THE FOLLOWING LOCATIONS SHALL BE OF SAFETY GLAZING MATERIAL IN ACCORDANCE WITH CRC SECTION R308.4: a) FIXED & SLIDING PANELS OF SLIDING DOOR ASSEMBLIES & PANELS IN
- SWINGING DOORS. ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR WHEN CLOSED & THE BOTTOM
- EDGE IS WITHIN 60" ABOVE THE WALKING SURFACE c) DOORS, EXTERIOR WINDOWS & ENCLOSURES FOR BATHTUBS & SHOWERS & IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 NCHES ABOVE A STANDING SURFACE & DRAIN OUTLET
- e) GLAZING WHERE THE AREA OF THE INDIVIDUAL PANE IS MORE THAN 9 SQUARE FEET, THE BOTTOM EDGE IS LESS THAN 18 INCHES FROM THE FLOOR, THE TOP EDGE IS GREATER THAN 36 INCHES ABOVE THE FLOOR & ONE OR MORE WALKING SURFACES IS WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

SHOWER WINDOWS WINDOWS IN SHOWERS SHALL BE MADE FROM MATERIALS THAT ARE NOT ADVERSELY AFFECTED BY MOISTURE. GLAZING SHALL BE TEMPERED. CRC R307.2

WOODEN BACKING MINIMUM 2"X8" WOODEN BACKING SHALL BE PROVIDED IN ALL BATHROOM WALLS AT WATER CLOSETS, SHOWERS, BATHTUBS & TOWEL BAR WALLS LOCATED 34" FROM THE FLOOR. FURTHER, PROVIDE BACKING FOR GRAB BARS FOR TOILETS ON FIRST FLOOR.

FINISHES FINIDHED PROVIDE 5/8" GYP. BOARD AT ALL INTERIOR WALL & CEIL'G LOCATIONS. INTERIOR WALL AND CEILING PAINTS SHALL BE LOW-VOC («100 GPL VOCS (NON-FLAT) AND «150 VOCS (NON-FLAT GLOSS)) WOOD FINISHES SHALL BE LOW VOC, WATER BASED («250 GPL VOCS) CAULK & CONSTRUCTION ADHESIVES SHALL BE LOW VOC («10 GPL VOCS) TO REDUCE FORMALDEHYDE IN INTERIOR FINISHES A MINIMUM OF 50% OF INTERIOR TRIM SHALL BE POPLAR OR ALDER ACCESS

UNDER FLOOR: ACCESS SHALL BE PROVIDED TO ALL UNDER-FLOOR SPACES. ACCESS OPENINGS THROUGH THE FLOOR SHALL BE A MINIMUM 18" X 24". OPENINGS THROUGH A PERIMETER WALL SHALL BE NOT LESS THAN 16" X 24". R408.4

BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQ. FEET & HAVE A VERTICAL HEIGHT OF 30" OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE A LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. WHEN THE ACCESS IS LOCATED IN A CEILING, MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30" AT SOME POINT ABOVE THE ATTIC ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF THE CEILING FRAMING MEMBERS, R807. LANDING

FLOORS & LANDING AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED $\frac{1}{4}$ " UNIT VERTICAL IN 12 UNIT HORIZONTAL (2%) R311.3

- RESIDENTIAL TOWN ACCESSIBILITY STANDARDS THE RESIDENCE SHALL BE DESIGNED WITH ADAPTABILITY FEATURES FOR A SINGLE FAMILY RESIDENCE PER TOWN RESOLUTION 1994-61: A. WOODEN BACKING (2" X 8" MINMUM) SHALL BE PROVIDED IN ALL BATHROOM WALLS, AT WATER CLOSETS, SHOWERS AND BATHTUBS AT 34" FROM THE FLOOR
- TO THE CENTER OF THE BACKING, SUITABLE FOR THE INSTALLATION OF GRAB B. ALL PASSAGE DOORS SHALL BE AT LEAST 32" WIDE ON THE ACCESSIBLE FLOOR. C. PRIMARY ENTRANCE SHALL BE A 36" WIDE DOOR MINIMUM INCLUDING A 5'X5' LEVEL LANDING, NO MORE THAN 1" OUT OF PLANE WITH THE IMMEDIATE INTERIOR
- FLOOR LEVEL WITH AN 18" CLEARANCE AT THE INTERIOR STRIKE EDGE D. DOOR BUZZER, BELL OR CHIME SHALL BE HARD WIRED AT PRIMARY ENTRANCE.

MILDLAND-URBAN INTERFACE

ROOF VALLEYS: VALLEYS & GUTTERS SHALL BE 26 GAUGE GALV. SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF 72LB MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36" WIDE THE FULL LENGTH OF THE VALLEY. GUTTERS WILL HAVE THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES & DEBRIS IN THE GUTTER. AS REQ'D PER SEC R337.5.3 & R337.5.4 TYP. VENTS:

WHERE PROVIDED, VENTILATION OPENINGS FOR ENCLOSED ATTICS ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, & UNDERFLOOR VENTILATION SHALL BE IN ACCORDANCE WITH SECTION 1203 OF THE CBC & SECTIONS R337.6.1 THROUGH R337.6.3 OF THIS SECTION TO RESIST BUILDING IGNITION FROM THE INTRUSION OF BURNING EMBERS & FLAME THROUGH THE VENTILATION OPENING. R337.6.1

EXTERIOR WALLS: EXTERIOR WALL COVERINGS SHALL BE APPROVED NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL & EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF & TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE. R337.7.3

ENCLOSED EAVES & EAVE SOFFITS THE EXPOSED UNDERSIDE OF ENCLOSED EAVES HAVING EITHER A BOXED-IN EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE, OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OF THE FOLLOWING:

- NONCOMBUSTIBLE MATERIAL. IGNITION RESISTANT MATERIAL.
- ONE LAYER OF 5/11 TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE RAFTER TAILS OR THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR WALL ASSEMBLY APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS OR
- SOFFIT INCLUDING ASSEMBLIES USING THE GYPSUM PANEL & SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL BOXED IN EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE
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- 1. GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS. 2. FASCIA & OTHER ARCHITECTURAL TRIM BOARDS. CBC R337.7.5

UNDERFLOOR PROTECTION: UNDERFLOOR AREAS SHALL MAINTAIN THE IGNITION-RESISTANT INTEGRITY OF EXTERIOR WALLS. PER SEC. R337.7.8 TYP.

EXTERIOR GLAZING: EXTERIOR GLAZING SHALL BE INSULATING GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE. PER R337.8.2

EXTERIOR DOORS: EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SFM 12-7A-1 OR SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION, OR SOLID CORE WOOD HAVING STILES & RAILS NOT LESS THAN 13%" THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 114" THICK, OR SHALL HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MIN. PER R337.8.3

GUTTER SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. CBC R337.5.4

- OPEN ROOF EAVES THE EXPOSED ROOF DECK ON THE UNDERSIDE OF UNENCLOSED ROOF EAVES SHALL CONSIST OF ONE OF THE FOLLOWING: NONCOMBUSTIBLE MATERIAL
- IGNITION RESISTANT MATERIAL ONE LAYER OF 5%" TYPE "X" GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK.
- THE EXTERIOR PORTION OF A 1 HOUR FIRE RESISTIVE EXTERIOR WAL ASSEMBLY APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR EXTERIOR FIRE EXPOSURE INCLUDING ASSEMBLIES USING THE GYPSUM PANEL & SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL. EXCEPTIONS:
- SOLID WOOD RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION
- SOLID WOOD BLOCKING INSTALLED BETWEEN RAFTER TAILS ON THE EXPOSED UNDERSIDE OF OPEN ROOF EAVES HAVING A MIN. NOMINAL DIMENSION OF 2".
- GABLE END OVERHANGS & ROOF ASSEMBLY PROJECTIONS BEYOND AN EXTERIOR WALL OTHER THAN AT THE LOWER END OF THE RAFTER TAILS.
- FASCIA & OTHER ARCHITECTURAL TRIM BOARDS CBC R337.7.4

A1.0 STRUCTURE

- $^{-1}$ 3 $^{1}\!\!/_2$ " Th. Stud Wall From 2X studs @ 16" O.C.
- $^{
 m J}$ 5½" TH. STUD WALL FROM 2X STUDS @ 16" O.C.
- 74" THICK STUD WALL FROM 2X STUDS @ 16" O.C.
- A1.4 10" NOM. STUD WALL
- A1.5 6" CONCRETE RETAINING WALL W/2X WOOD WALL
- 16" O.C 12" CONCRETE RETAINING WALL W/2X4 STUD WALL
- 12" CONCRETE RETAINING WALL $W/\frac{1}{2}$ " GAP W/2X4 STUDS @ 16" O.C. A1.8 UNDER FLOOR ACCESS
- A1.9 EXTERIOR LANDINGS

SEE ARCHITECTURAL NOTE FOR SAFETY GLAZING

UPPER FLOOR PLAN

PAVED OUTDOOR DECK / PATIOS

Ū	Room	Nominal M x H	Door Schedule View from Reveal Side	е Туре	Frame	Tempered	Screen	Egress	Remarks	Header
C 1	FOYER	12'-0"×9'-6"	e.e.	Opening	Stucco w/Trim	NO	NO	NO		9'-6"
62	COVERED PORCH	4'-0"×4'-6"		Opening	Stucco w/Trim	NO	NO	NO		8'-6"
3	COVERED Porch	8'-0"×9'-0"	8-0" 1-0"	Opening	Stucco w⁄Trim	NO	r0	x0		9'-0''
C4	COVERED Porch	8'-0"×9'-0"		Opening	Stucco w⁄Trim	NO	NO	NO		9'-0"
in U	COVERED Porch	8'-0"×9'-0"		Opening	Stucco w⁄Trim	NO	20 Z	NO		9'-0''
Св	KITCHEN/ DECK	9'-2"×3'-4"		Opening	Stucco w⁄Trim	NO	NO	×o		9'-10''
с7	MUD ROOM/ FOYER	4'-0"×8'-6"		Opening	Gypsum	NO	NO	NO		8'-6"
C8	MUD ROOM/ WORK #2	4'-0"×8'-6"		Opening	Gypsum	NO	NO	NO		8'-6"
Cq	Foyer/Hall	11'-0"×9'-0"		Opening	Gypsum	NO	NO	NO		9'-0"
C10	LIVING ROOM/ BEDROOM 1	3'-6"×8'-6"		Opening	Gypsum	NO	NO	NO		8'-6"
C 11	LANDING/ HALL	3'-6"×8'-0"	ی پ ۲	Opening	Gypsum	NO	NO	NO		8'-0"
C12	HALL/HALL	3'-6"×8'-0"		Opening	Gypsum	NO	NO	NO		8'-0"
C13	KITCHEN/ LANDING	3'-6"×8'-0"		Opening	Gypsum	NO	NO	NO		8'-0"
C 14	KITCHEN/ Pantry	3'-0"×8'-0"		Opening	Gypsum	NO	NO	NO		8'-0"
C15	KITCHEN/ LANDING	3'-4"×3'-9"		Opening	Gypsum	NO	NO	NO		7'-0''
C16	DINING ROOM/ LIVING ROOM	12'-0"×9'-0"	\$-0. -0.	Opening	Gypsum	NO	NO	NO		9'-0"
C17	KITCHEN/ LIVING ROOM	1'-7 ^{1/4} "×3'-6"		Opening	Gypsum	NO	no	NO		6'-9"
C18	LIVING ROOM/ LANDING	13'-10"×9'-0"	ê-0"	Opening	Gypsum	NO	NO	NO		9'-0"
D 1	FOYER	6'-0"×9'-0"		Entry	Alum Clad Mood Frame	Yes	NO	Yes		9'-0''
D2	GARAGE	18'-0"×8'-0"		Sectional Rollup Garage Door	Steel	Yes	NO	NO		8'-0"
DB	WORK #2	6'-0"×8'-0"		Slider	Alum Clad Wood Frame	Yes	Yes	Yes		8'-0"

Ð	Room	Nominal $M \times H$	View from Reveal Side	Туре	Frame Material	Tempered Glass	Screen	Egress	Remarks	Header Height	D	Room	Nominal M × H Vieu	from Reveal Side	e Type	Frame Material	Tempered Glass	Screen	Egress F	Remarks	Header Height
₽4	BEDROOM 3	6'-0"×8'-0"		Slider	Alum Clad Wood Frame	Yes	Yes	Yes		8'-0"	D26	STORAGE	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D5	LOWER FLOOR STORAGE	3'-0"×8'-0"		Swing	Solid Core Nood 1¾"	NO	ro	NO		8'-0"	D27	FOYER/ MORK 1	5'-0"×8'-0"		Double swing	Alum Clad Mood Frame	Yes	NO	NO		8'-0"
D6	зүм	6'-0"×8'-0"		Slider	Alum Clad Nood Frame	Yes	Yes	Yes		8'-0"	D28	BEDROOM 1	3'-0"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
דס	DINING 200M	14'-6"×8'-0"		Bifold	Steel	Yes	Yes	NO		8'-0"	D29	BATH 1	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D8	-IVING ROOM	12'-8"×10'-6"		Dbl Swing w/ Sidelites	Steel	Yes	NO	NO		10'-6"	D30	MALK IN CLOSET	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0''
D9	BEDROOM 1	10'-6"×9'-0"		Swing w⁄ Sidelites	Steel	Yes	ZQ	Yes		9'-0"	D31	BATH 1 WATER CLOSET	2'-4"×8'-0"		Pocket	Solid Core Nood 1¾"	NO	NO	NO ++	beries 2000 Ivy Dty Idwr	8'-0"
D10	2ND FLOOR MECH/ STORAGE	5'-0"×8'-0"		Double swing	Fibergla ss	Yes	NO	NO		8'-0"	D32	LANDING CLOSET	4'-0"×8'-0"		Double swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D 11	DINING ROOM	12'-0"×8'-0"		Double Slider	Alum Clad Wood Frame	Yes	Yes	NO		8'-0"	D33	MED LEVEL ELEVATOR	2'-&"x&'-O"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D12	ВАТН Б	2'-8"×8'-0"		Swing	Solid Core Wood 1¾"	NO	NO	NO		8'-0"	D34	BEDROOM 2	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D13	PLAYROOM	15'-0''×8'-0''		Bifold	Steel	Yes	Yes	NO		8'-0"	D35	BATH 2	2'-&"×&'-O"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D14	MUDROOM	2'-8"×8'-0"		Swing	Solid Core Wood 1¾	NO	NO	NO		8'-0"	D36	, BEDROOM 2 CLOSET	2'-6"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D15	MUD ROOM/ NORK #2	4'-0"×8'-0"		Opening	Gypsum	NO	NO	NO		8'-0"	D37	, TECH CLOSET	2'-4"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D16	LOWER ELOOR LAUNDRY	4'-0"×8'-0"		Double swing	Solid Core Mood 1¾"	NO	NO	NO		8'-0"	D38	LAUNDRY	3'-0"×8'-0"		Pocket	Solid Core Nood 1¾"	NO	NO	NO H	beries 2000 ivy Dty idwr	8'-0"
דוס	BEDROOM 3 CLOSET	2'-4"×8'-0"		Swing	Solid Core Mood 1¾"	NO	NO	NO		8'-0"	D39	PONDER	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D 18	BEDROOM 3 CLOSET	6'-0"×8'-0"		Bypass	Solid Core Wood 1¾"	NO	NO	NO	Series 2000 Hvy Dty Hdwr	8'-0"	D40	PANTRY	2'-8"×8'-0"		Pocket	Solid Core Nood 1¾"	NO	NO	NO + +	beries 2000 ivy Dty idwr	8'-0"
D19	ELEVATOR Equipment	2'-6"×8'-0"		Swing	Solid Core Nood 1¾	NO	NO	NO		8'-0"	₽41	UPPER FLOOR ELEVATOR	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0''
D20	BEDROOM 3	3'-0"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"	₽42	LAUNDRY/ Playr <i>oo</i> m	3'-0"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D2 1	ВАТН В	2'-&"x&'-O"		Swing	Solid Core Nood 1¾	NO	NO	NO		8'-0"	D43	BEDROOM 4	2'-8"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D22	LOWER ELOOR ELEVATOR	2'-8"×8'-0"		Swing	Solid Core Nood 1¾	NO	NO	NO		8'-0"	D44	BEDROOM 4 CLOSET	2'-6"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D23	NINE SELLER	2'-8"×8'-0"		Swing	Glass	Yes	NO	NO		8'-0"	D45	BATH 4	2'-6"×8'-0"		Swing	Solid Core Nood 1¾"	NO	NO	NO		8'-0"
D24	SYM/HALL	3'-0"×8'-0"		Pocket	Solid Core Nood 1¾	NO	no	NO	Series 2000 Hvy Dty Hdwr	8'-0"	D46	BEDROOM 5	2'-8"×8'-0"		Swing	Solid Core Nood 1 ³ 4"	NO	NO	NO		8'-0"
D25	MECH ROOM	2'-8"×8'-0"		Swing	Solid Core Mood 1¾"	NO	NO	NO		8'-0"	P47	BEDROOM 5 CLOSET	2'-6"×8'-0"		Swing	Solid Core Mood 1¾"	NO	NO	NO		8'-0"

arks Header Height	ress Rem	screen	Tempered Glass	Frame Materia	e Type	Window Schedule View from Reveal Side	Nominal M x H	D Room	eader eight	Remarks +	Egress	¹ Screen	Tempered I Glass	Frame Material	e Type	Window Schedule View from Reveal Side	Room Nominal W × H	D
8'-2"		>	res, At east one i pane	Alum Clad Nood Frame	Fixed	E	3'-0"×3'-6"	N18 STAIRMELL	0"	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Casement		GARAGE 3'-0"×5'-0"	M1
8'-2"		о ,	res, At east one 1 pane	Alum Clad Nood Frame	Fixed		3'-0"×3'-6"	N19 STAIRMELL	·O"	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Casement	4-6" 6"	2 GARAGE 3'-0"×5'-0"	W2
8'-2"		o '	res, At east one 1 pane	Alum Clad Nood Frame	Fixed	Solution of the second se	3'-0"×3'-6"	N20 STAIRMELL	·O"	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Casement		3 GARAGE 3'-0"×5'-0"	MЗ
8'-2"		<i>></i>	res, At east one i pane	Alum Clad Wood Frame	Fixed		3'-0"×3'-6"	N21 STAIRMELL	·O"	8'	NO	Yes	Yes	Alum Clad Wood Frame	Double Casement		BEDROOM 3 6'-0"×4'-0"	M4
8'-2"		2 1	res, At east one i pane	Alum Clad Nood Frame	Fixed		3'-0"×3'-6"	N22 STAIRMELL	.0"	8	Yes	Pres	Yes, At least one pane	Alum Clad Wood Frame	Double Casement		5 WORK 1 6'-0"×5'-0"	MS
8'-0"	;	25 '	res, At east one ' oane	Alum Clad Mood Frame	XOX Casemen		4 9'-0"×4'-0"	N23 BEDROOM 4	0"	9'	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	XOX Casement		MORK 1 9'-0"×6'-0"	M6
8'-6"		2S '	res, At east one ' oane	Alum Clad t Nood Frame	Double Casemen		4 6'-0"×5'-6"	N24 BEDROOM 4	·O''	8	NO	Yes	Yes, At least one pane	Alum Clad Nood Frame	Double Casement		BEDROOM 1 6'-0"×6'-0"	דא
8'-0"		25 1	res	Alum Clad Wood Frame	Casemen		3'-0"×4'-0"	N25 BATH 4	· O ''	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Casement		BEDROOM 1 3'-0"×5'-0"	MB
8'-6"		25 1	res, At east one ' oane	Alum Clad Wood Frame	Double Casemen		5 6'-0"×5'-6"	N26 BEDROOM 5	·O"	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Casement		I BEDROOM 1 3'-0"×5'-0"	Ma
8'-0"	>	25 '	res, At east one ' oane	Alum Clad Wood Frame	XOX Casemen		5 9'-0"×4'-0"	N27 BEDROOM 5	·6''	8	NO	Yes	Yes	Alum Clad Wood Frame	Double Casement		D BATH 1 6'-0"×5'-6"	W10
8'-0"		35	res '	Alum Clad Wood Frame	Casemen		3'-0"×2'-6"	N28 BATH 5	·O''	8	NO	Yes	Yes	Alum Clad Nood Frame	Casement		1 BATH 1 3'-0"×3'-0"	M 11
8'-0"		35 1	res, At east one ' oane	Alum Clad Wood Frame	Double Casemen		10'-0"×5'-0"	N29 PLAYROOM	·O''	8	NO	Res	Yes, At least one pane	Alum (Clad (Wood (Frame (Casement		2 WALK IN 3'-0"×5'-0"	W12
8'-0''		35	res, At east one ` oane	Alum Clad Nood Frame	Double Casemen		5'-0"×5'-0"	N30 PLAYROOM	·O''	8	Yes	Yes	Yes	Alum Clad Wood Frame	Double Casement		3 BEDROOM 2 6'-0"×5'-0"	W13
8'-0"		95 '	res, At east one ' oane	Alum Clad Wood Frame	Double Casemen		5'-0"×5'-0"	N31 PLAYROOM	·O"	8	NO	Yes	Yes	Alum Clad Wood Frame	Casement		4 BATH 2 2'-6"×4'-0"	M14
									6"	q'	NO	Yes	Yes, At least one pane	Alum Clad Nood Frame	Fixed over Slider	4-10" 8"+1"-0"	5 KITCHEN 9'-0"×6'-6"	W15
									.0"	8	NO	Yes	Yes, At least one pane	Alum Clad Wood Frame	Double Casement		ELIVING ROOM 6'-0"×6'-0"	M16
									-2"	8	NO	NO	Yes, At least one pane	Alum Clad Wood Frame	Fixed		7 STAIRMELL 3'-0"×3'-6"	M17
			res, At east one res, At east one	Alum Clad Wood Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame Alum Clad Frame	Fixed XOX Casemen Double Casemen Casemen Casemen Double Casemen Double Casemen Double Casemen		$ \begin{array}{c} $	N22 STAIRWELL N23 BEDROOM 4 N24 BEDROOM 4 N25 BATH 4 N26 BEDROOM 5 N27 BEDROOM 5 N28 BATH 5 N29 PLAYROOM			Yes NO NO NO NO NO NO NO NO NO	res res res res res res res res res res	Yes, At least one pane Yes, At least one pane Yes, At least one pane Yes, At least one pane Yes, At least one pane Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Nood Frame Alum Alum <	Casement		DEDROOM D D-0 X4-0" MORK 1 6-0"X5-0" MORK 1 9-0"X6-0" DEDROOM 1 6-0"X5-0" DEDROOM 1 5-0"X5-0" DEDROOM 2 6-0"X5-0" DEDROOM 3 6-0"X5-0" DEDROOM 4 8-0"X5-0" DEDROOM 2 6-0"X5-0" DEDROOM 3 6-0"X5-0" DEDROOM 4 6-0"X5-0" DEDROOM 5 6-0"X6-0" DEDROOM 6-0"X6-0" 7 DEDROM 5 6-0"X5-0"	N4 N5 N6 N7 N8 N9 N10 N11 N12 N13 N14 N15 N16 N17

LEFT ELEVATION

ELEVATION LEGEND

- A1 ROOFING CLASS 'A' ROOF ASSEMBLY, 2-PIECE CLAY BARREL TILE ROOF BY LUDOWICI O/1 LAYER 72#, "GAFGLASS" MINERAL-SURFACED, CAP SHEET BY GAF, OR EQUAL OR BETTER, O/1 LAYER #30 FELT. U.O.N.
- A2 FLAT ROOF AREA
- CLASS "A" ROOF ASSEMBLY, TPO 0/1 LAYER SECUROCK UNDERLAYMENT 0/ ½" CDX SHEATHING. INSTALL ROOFING PER MANUFACTURER'S INSTRUCTIONS. SLOPE PROVIDED BY ROOFING CONTRACTOR.
- A3 EXTERIOR MALL FINISH INTEGRAL COLOR SMOOTH 4 COAT STUCCO W/ANTIFRACTURE MEMBRANE O/CORROSION RESISTANT METAL WIRE MESH O/2 LAYERS GRADE "D" BUILDING PAPER O/½" CDX PLYWOOD SHEATHING
- A4 STONE VENEER ADHERED MAGONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. R703.12 CLEARANCES ON EXTERIOR VENEER WALLS SHALL BE, 4" MIN. ABOVE EARTH, 2" ABOVE PAVED AREAS, $\frac{1}{2}$ " ABOVE EXTERIOR WALKING SURFACES WHICH ARE SUPPORTED BY THE FOUNDATION THAT SUPPORTS THE EXTERIOR WALLS. R703.12.1
- A5 WINDOWS & DOORS Alum. Clad wood framed windows & doors. Recessed 2" From exterior.
- AG GUTTERS 5" HIGH X 4" WIDE PAINTED GALV. OGEE GUTTERS TO MATCH ROOFING W/A GUTTER COVER THAT PREVENTS THE ACCUMULATION OF LEAVES & DEBRIS
- A7 CAST STONE MOLDING PROVIDE CAST STONE MOLDING W/INTEGRAL GUTTER. STYLE TO BE DETERMINED BY ARCHITECT.
- A8 DOWNSPOUTS 3" ROUND PAINTED GALV. DOWNSPOUTS, TO MATCH ROOFING, TO SPLASH BLOCKS DIRECTED TO VEGETATED AREAS
- A9 WOOD WRAP &" COLUMNS &" SQ WOOD WRAPPED COLUMNS W/TRIM TOP & BOTTOM
- A10 GARAGE DOOR INSTALL NEW WOOD SECTIONAL ROLL-UP GARAGE DOOR WITH OPENER.
- A11 SITE ADDRESS SITE ADDRESS ADDRESS SHALL BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE & VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MIN. 4" HIGH WITH A MIN. STROKE WIDTH OF ½". WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD & THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE, OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. CBC R319.1
- A12 WATER TABLE STUCCO WATER TABLE APPLIED TO STUCCO. STYLE TBD BY ARCHITECT.
- A13 42" METAL RAILING PROVIDE 42" HIGH WROUGHT IRON METAL RAILING AT BALCONY WITH BALUSTERS SPACED SUCH THAT A 4" DIA. SPHERE CANNOT PASS THROUGH. FABRICATOR SHALL PROVIDE SHOP DRWGS, SPICS, & CALCS FOR APPROVAL BY ARCHITECT. CRC R312 A14 SHAPED BEAM ENDS @ OVERHANGS
- PROVIDE 4X6 SHAPED BEAM END @ 36" OC AT OVERHANGS A15 SHAPED BEAM ENDS
- PROVIDE SHAPED BEAM END @ PATIOS. STYLE TO BE DETERMINED BY ARCHITECT
- A16 CAST STONE TRIM PROVIDE CAST STONE TRIM @ WINDOWS, DOORS, & OPENINGS. STYLE TO BE DETERMINED BY ARCHITECT
- A17 SKYLIGHT PROVIDE DUAL GLAZED FLAT PROFILE SKYLIGHTS W/TEMPERED GLASS OVER LAMINATED GLASS. VELUX ER-0199

RIGHT ELEVATION

SCALE: 1/4" = 1'-0'

2	Gutters: Painted galv. gutters.	dark gray to black.	
\sim	······	·····	······

ARCHITECTURAL SECTION NOTES

- A1 4" NOM. STUD WALL 31/2" TH. STUD WALL FROM 2X STUDS @ 16" O.C.
- A2 6" NOM. STUD WALL 5½" TH. STUD WALL FROM 2X STUDS @ 16" O.C.
- A3 8" NOM. STUD WALL 74" THICK STUD WALL FROM 2X STUDS @ 16" O.C.
- A4 10" NOM. STUD WALL 94" TH. STUD WALL FROM 2X STUDS @ 16" O.C.
- A5 6" CONCRETE RETAINING WALL W/2X WOOD WALL 6" CONCRETE RETAINING WALL W/2" GAP W/2X FLAT LAY STUDS @ 16" O.C.
- AG 8" CONCRETE RETAINING WALL W/2X WOOD WALL 8" CONCRETE RETAINING WALL W/2" GAP W/2X FLAT LAY STUDS @ 16" O.C.
- A7 12" CONCRETE RETAINING WALL W/2X4 STUD WALL 12" CONCRETE RETAINING WALL W/1/2" GAP W/2X4 STUDS @ 16" O.C.
- A8 WALL INSULATION TYP. PROVIDE R-21 LOW-EMITTING BATT INSULATION PER TITLE 24

A9 CLOSED CELL CEILING INSULATION APPLY R-38 DEMILEC CLOSED CELL SPRAY FOAM INSULATION TO UNDERSIDE OF ROOF SHEATHING. R-VALUE 7.4 PER INCH. SEE TITLE 24 FOR R VALUES REQUIRED, ESR-3210

- A10 5%" GYPSUM BOARD % GYPSUM BOARD SHALL BE APPLY THROUGH OUT THE RESIDENCE. TYP. U.O.N.
- A11 5%" TYPE "X" GYPSUM BOARD
- 5%" TYPE "X" GYPSUM BOARD AT GARAGE CEILING A12 ROOFING
- CLASS 'A' ROOF ASSEMBLY, 2-PIECE CLAY BARREL TILE ROOF BY REDLANDS O/ 1 LAYER 72#, "GAFGLASS" MINERAL-SURFACED, CAP SHEET BY GAF, OR EQUAL OR BETTER U.O.N.
- A13 FLAT ROOF AREA CLASS "A" ROOF ASSEMBLY, TPO 0/1 LAYER SECUROCK UNDERLAYMENT 0/ ½" CDX SHEATHING. INSTALL ROOFING PER MANUFACTURER'S INSTRUCTIONS. SLOPE PROVIDED BY ROOFING CONTRACTOR.
- A14 EXTERIOR WALL FINISH INTEGRAL COLOR SMOOTH 4 COAT STUCCO W/ANTIFRACTURE
- MEMBRANE O/CORROSION RESISTANT METAL WIRE MESH O/2 LAYERS GRADE "D" BUILDING PAPER O/2" CDX PLYWOOD SHEATHING
- A15 STONE VENEER ADHERED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. R703.12 CLEARANCES ON EXTERIOR VENEER WALLS SHALL BE, 4" MIN. ABOVE EARTH, 2" ABOVE PAVED AREAS, 1/2" ABOVE EXTERIOR WALKING SURFACES WHICH ARE SUPPORTED BY THE FOUNDATION THAT SUPPORTS THE EXTERIOR WALLS. R703.12.1
- A16 GUTTERS 5" HIGH X 4" WIDE PAINTED GALV. OGEE GUTTERS TO MATCH ROOFING W/A GUTTER COVER THAT PREVENTS THE ACCUMULATION OF LEAVES & DEBRIS
- A17 DOWNSPOUTS 3" ROUND PAINTED GALV. DOWNSPOUTS, TO MATCH ROOFING, TO SPLASH BLOCKS DIRECTED TO VEGETATED AREAS
- A18 WOOD WRAP 8" COLUMNS 8" SQ WOOD WRAPPED COLUMNS W/TRIM TOP & BOTTOM
- A19 SHAPED BEAM ENDS @ OVERHANGS PROVIDE 4X6 DF #1 SHAPED BEAM END @ 36" OC AT OVERHANGS
- A20 SHAPED BEAM ENDS PROVIDE SHAPED BEAM END @ PATIOS. STYLE TO BE DETERMINED BY ARCHITECT
- A21 CAST STONE TRIM PROVIDE CAST STONE TRIM @ WINDOWS, DOORS, & OPENINGS. STYLE TO BE DETERMINED BY ARCHITECT
- A22 SKYLIGHT PROVIDE DUAL GLAZED SKYLIGHTS W/TEMPERED GLASS OVER LAMINATED GLASS. VELUX ER-0199 A23 STAIRWAYS:
- STAIRWAYS:
 STAIRWAYS: WIDTH. STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT & BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4½" ON EITHER SIDE OF THE STAIRWAY & THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT & BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS & LANDINGS, SHALL NOT BE LESS THAN 31½" WHERE A HANDRAIL IS INSTALLED ON ONE SIDE & 27" WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES. THE MAXIMUM RISER HEIGHT SHALL BE 7½". THE MINIMUM TREAD DEPTH SHALL BE 10". AT STAIRS WITH MORE THAN THREE RISERS, FROVIDE MIN. ONE 114"Ø TO 2"Ø STAIR HANDRAILS MAY PROJECT A MAX. OF 4½" INTO REQUIRED WIDTH OF STAIRWAY & SHALL PROVIDE 1½" SPACE BETWEEN WALL & HANDRAIL. HANDRAILS SHALL BE CONTINUOUS FROM TOP TO BOTTOM & TERMINATE AT NEMEL POSTS OR RETURN TO WALL. PROVIDE BALUSTERS, WHERE REQUIRED SUCH THAT A 43%" DIA. SPHERE CANNOT PASS THROUGH. HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1¼" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 6½" WITH A MAXIMUM CROSS SECTION OF 2¼". EDGES SHALL HAVE A MINIMUM RADIUS OF .01".CRC R311.7
- A24 LOWER TO MAIN FLOOR STAIR
- 19 RISERS 7" 18 TREADS 10 $\frac{1}{4}$ " MEASURED 12" FROM INSIDE EDGE A25 MAIN TO SECOND FLOOR STAIR 17 RISERS 7" 16 TREADS 12" WITH 2 INTERMEDIATE LANDINGS
- A26 HANDRAIL @ STAIR AT STAIRS WITH MORE THAN THREE RISERS, PROVIDE MIN. ONE 11/4"Ф TO 2"Ф STAIR HANDRAIL 34" TO 38" ABOVE STAIR NOSING WITH NO SHARP EDGES. HANDRAILS MAY PROJECT A MAX. OF 41/2" INTO REQUIRED WIDTH OF STAIRWAY & SHALL PROVIDE 11/2" SPACE BETWEEN WALL & HANDRAIL. HANDRAILS SHALL BE CONTINUOUS DETREEN WALL & HANDRAIL. HANDRAILS SHALL DE CONTINUOUS FROM TOP TO BOTTOM & TERMINATE AT NEWEL POSTS OR RETURN TO WALL. PROVIDE BALUSTERS, WHERE REQUIRED SUCH THAT A 43" DIA. SPHERE CANNOT PASS THROUGH. RAIL FABRICATOR SHALL PROVIDE SHOP DRWGS, SPECS, & CALCS FOR APPROVAL BY
- ARCHITECT. CRC R312 A27 GUARDS @ BALCONY GUARDS @ DALCONT PROVIDE 42" H. GUARDRAIL AT LANDINGS, WALKWAYS, BALCONIES & SIMILAR WALKING SURFACES WITH ADJACENT OPENINGS MORE THAN 30" ABOVE FLOOR OR GRADE BELOW. PROVIDE BALUSTERS SPACED SUCH THAT A 4" DIA. SPHERE CANNOT PASS THROUGH. RAIL FABRICATOR SHALL PROVIDE SHOP DRWGS, SPECS, & CALCS FOR APPROVAL BY ARCHITECT (RC R312
- APPROVAL BY ARCHITECT. CRC R312 A22 CLOSED OVERHANGS PROVIDE PLASTER CEMENT AT ALL OVERHANGS TO CREATE
- A29 FOUNDATION INSULATION
- INSTALL 2" RIGID FOAM INSULATION ON INSIDE OF FOUNDATION IN CRAWL SPACE TO PROVIDE CONDITIONED CRAWL SPACE. A30 PROVIDE 12" DEEP PIT AT ELEVATOR

SECTION E-E

SECTION F-F

SCALE: 1/4" = 1

CAL GREEN MANDATORY ME	ASURES	201	9
	VER	IFICA	
MANDATORY FEATURE OR MEASURE			
		NTS	
PLANNING & DESIGN			
SITE DEVELOPMENT: 4.106.2 A plan is developed and implemented to manage sto	rm water		
drainage during construction. 4.106.3 Construction plans shall indicate how site grading o	ra		
drainage system will manage all surface water flows to keep wa	ater	\checkmark	
4.106.4 Provide capability for electric vehicle charging in one- and two-family dwellings and in townhouses with		Z	
attached private garages; and 3 percent of total parking spaces, as specified, for multifamily dwellings.			
General			
4.201.1 Building meets or exceeds the requirements of the Building Energy Efficiency Standards.	California	$\mathbf{\Lambda}$	
WATER EFFICIENCY AND CONSERVAT	TION		
Indoor Water Use 4.303.1 Plumbing fixtures (water closets and urinals) and fit	tings		
(faucets and showerheads) installed in residential buildings sha comply with the prescriptive requirements of Sections 4.303.	all 1.1	$\mathbf{\nabla}$	
through 4.303.1.4.4. i. 1.28 gpf for water closets			
ii. 1.8 gpm @ 80psi for showers iii. 1.2 gpm @ 60psi for lavatory faucets			
IV. 1.5 rpm @ 60psi for Kitchen faucets 4.303.2 Plumbing fixtures and fittings required in Section 4	303.1		
shall be installed in accordance with the California Plumbing Co and shall meet the applicable referenced standards	ode,	$\mathbf{\Lambda}$	
Outdoor Water Use			
4.304.1 After December 1, 2015, new residential developme an aggregate landscape area equal to or areater than 500 sa	nts with uare feet		
shall comply with one of the following options: 1. A local water efficient landscape ordinance or the current			
California Department of Water Resources' Model Water Effic Landscape Ordinance (MWELO), whichever is more stringent; (ient or		
2. Projects with aggregate landscape areas less than 2,500 s feet may comply with the MMELO's Appendix D Prescriptive	quare		
Compliance Option.			
Enhanced Durability & Reduced Maintenance			-
4.406.1 Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls	shall be	N	
protected against the passage of rodents by closing such ope with cement mortar, concrete masonry or similar method acce	enings eptable		
to the enforcing agency. Construction Waste Reduction. Disposal. & Red	cuclina		
4.408.1 Recycle and/or salvage for reuse a minimum of 659	6 of the		
one of the following:			
waste management ordinance: or 2. A construction waste management plan. per Section 4.	408.2: or		
3. A waste management company. per Section 4.408.3: 01 4. The waste stream reduction alternative. per Section 4	- 408.4		
Building Maintenance & Operation			
the building occupant or owner.	64 10	$\mathbf{\Lambda}$	
ENVIRONMENTAL QUALITY			
4.503.1 Any installed gas fireplace shall be a direct-vent set	aled-combustion		
type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSF	PS)		
emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Wood	stoves,		
ordinances.	ocal		
Pollutant Control 4.504.1 Duct openings and other related air distribution corr	ponent		
openings shall be covered during construction. 4.504.2.1 Adhesives, sealants and caulks shall be compliant u	vith		
VOC and other toxic compound limits. 4.504.2.2 Paints stains and other coatings shall be compliar	it with		
VOC limits.	h		
product weighted MIR limits for ROC and other toxic compou	nds.	$\mathbf{\nabla}$	
4.504.2.4 Documentation shall be provided to verify that co VOC limit finish materials have been used.	mpilant	$\mathbf{\Lambda}$	
4.504.3 Carpet and carpet systems shall be compliant with v limits.	100	\checkmark	
4.504.4 80% of floor area receiving resilient flooring shall comply with specified VOC criteria.		$\mathbf{\Lambda}$	
4.504.5 Particleboard, medium density fiberboard (MDF) ar	nd		
hardwood plywood used in interior finish systems shall comply low formaldehyde emission standards.	with		
Interior Moisture Control			
4.505.2 vapor retarder and capillary break in installed at size grade foundation.		$\mathbf{\nabla}$	
floor framing is checked before enclosure.		$\mathbf{\Lambda}$	
Environmental Comfort 4.507.2. Duct sustems are sized, designed, and equipment is			
selected using the following methods: 1. Establish heat loss and heat gain values according to	ANSI/		
ACCA 2 Manual J-2011 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual	D-2014		
or equivalent. 3. Select heating and cooling equipment according to AN	NSI/ACCA		
3 Manual 5-2014 or equivalent.			
Qualifications		NS	
702.1 HVAC system installers are trained and certified in the installation of HVAC systems.	proper	\checkmark	
702.2 Special inspectors employed by the enforcing agency r be qualified and able to demonstrate competence in the discip	nust Dline		
they are inspecting.			
703.1 Verification of compliance with this code may include	ller		
certification, inspection reports, or other methods acceptable the enforcing agency which show substantial conformance	e to		

ELEC./MECH. NOTES EXHAUST AIR

THE DISCHARGE POINT FOR EXHAUST AIR WILL BE AT LEAST 3 FT. FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING. CMC 504.4 HOSE BIBBS

ALL HOSE BIBBS TO HAVE BACKFLOW PREVENTION DEVICES. CPC 603.4.6 ANTI-HAMMER VALVES PROVIDE ANTI-HAMMER VALVES WITH ACCESS PANELS AT DISHWASHER & WASHING MACHINE. CPC 609.10 AIR DUCTS

ALL AIR DUCTS PENETRATING SEPARATION WALL OR CEILING BETWEEN GARAGE \$ LIVING AREA SHALL BE 26 GA. MIN. CRC R302.5.2 SHOWERS & TUB SHOWERS

PROVIDE INDIVIDUAL CONTROL VALVES FOR THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. CPC 408.3 ELEC. BOND @ W.H. PIPES PROVIDE ELECTRICAL BOND BETWEEN INTERIOR GAS LINES & HOT & COLD LINES AT WATER HEATER. CEC 250.104

ALL HOT WATER PIPES SHALL BE INSULATED FULL LENGTH. ALL PIPING SHALL BE ENGINEERED PARALLEL W/ DEMAND CONTROLLED CIRCULATION PUMP. CPC 609.11 CPC L601.3.

SMOKE/CARBON MONOXIDE DETECTORS SMOKE DETECTORS SHALL BE INTERCONNECTED WITH BATTERY BACKUP IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER

BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. ALARMS SHALL BE INSTALLED IN ALL SLEEPING ROOMS & OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, NOT LESS THAN 3' FROM BATHROOMS, MORE THAN 20' FROM ANY COOKING APPLIANCE. NO ALARMS & INSTRUCTIONS SHALL BE INSTALLED UNLESS THEY HAVE BEEN LISTED & APPROVED BY THE SITE FIRE MARSHALL PRIOR TO INSTALLATION. EVIDENCE MUST BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION. PER CRC R314,315

HVAC SYSTEM DESIGN HVAC SYSTEM TO ACCA MANUAL J, D, & S RECOMMENDATIONS. INSTALL UNIT & DUCTWORK WITHIN CONDITIONED SPACE. USE DUCT MASTIC ON ALL DUCT JOINTS & SEAMS. PROTECT DUCTS DURING CONSTRUCTION & CLEAN BEFORE OCCUPANCY. PRESSURE RELIEVE THE DUCTWORK SYSTEM. PROVIDE HIGH EFFICIENCY HVAC FILTER (MERV 13+)

WALL & FLOOR PENETRATIONS ALL MECHANICAL, PLUMBING, ELECTRICAL & SIMILAR PENETRATIONS OF THE FLOOR & CEILING SHALL BE FIRE CAULKED WITH A RESIDENTIAL RATED CAULK WITH AN ASTM RATING OF E136. GFCI OUTLETS

GROUND-FAULT CIRCUIT-INTERRUPTERS ARE REQUIRED TO PROTECT THE RECEPTACLES IN BATHROOMS, GARAGES, OUTDOORS, KITCHENS, & LAUNDRY AREAS, & DISHWASHER BRANCH CIRCUITS. GFCI RECEPTACLES CAN BE USED ON AN ARC-FAULT PROTECTED CIRCUIT. CEC 210.8 APPLIANCE BRANCH CIRCUITS

PROVIDE TWO APPLIANCE BRANCH CIRCUITS IN KITCHEN THAT ARE LIMITED TO SUPPLYING WALL OR COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. NOTE: THESE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHERS OF MICROWAVES-ONLY REQUIRED COUNTER TOP/WALL OUTLETS INCLUDING REFRIGERATOR CEC 210.50

BATHROOM DEDICATED CIRCUIT A DEDICATED 20-AMP CIRCUIT IS REQUIRED TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTACLES, LIGHTS, FANS, ETC. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR THER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) CEC 210.11

LAUNDRY DEDICATED CIRCUIT A DEDICATED 20-AMP BRANCH CIRCUIT IS REQUIRED TO SERVE THE LAUNDRY RECEPTACLE OUTLETS. CEC 210.11 AFCI BRANCH CIRCUITS

ALL 120V 15 & 20 AMP ELECTRICAL CIRCUITS SUPPLYING OUTLETS (LIGHTING & RECEPTACLES) INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, FARLORS, LIDRANES, DENS, DEDROUMS, SURROUMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, OR COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUITS. PROTECTED. CEC 210.12

BATHROOM VENTILATION BATHROOMS CONTAINING BATHTUBS, SHOWERS OR SPAS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE CMC PER CRC SECTION R303.3. BATHROOM FANS TO BE ENERGY STAR RATED, VENTED TO THE OUTSIDE, & CONTROLLED WITH A HUMIDISTAT SWITCH. CGBSC 4.506

DOOR BELL/BUZZER DOOR BUZZER, BELL, OR CHIME SHALL BE HARD WIRES AT THE PRIMARY ENTRANCE. RECEPTACLES ALL RECEPTACLES SHALL BE TAMPER RESISTANT. CEC 406.12 SPACING, RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY

ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6' FROM A RECEPTACLE OUTLET. ANY SPACE 2' OR MORE IN WIDTH SPACE AFFORDED BY FIXED ROOM DIVIDERS. FLOOR OUTLETS SHALL NOT BE COUNTED AS PART OF THE REQ'D NUMBER UNLESS WITHIN 18" OF THE WALL. CEC 210.52 MECHANICAL VENTILATION

IN BATHROOMS, WATER CLOSETS COMPARTMENTS & OTHER SIMILAR ROOMS THAT DON'T HAVE THE REQUIRED NATURAL VENTILATION. PROVIDE MECHANICAL VENTILATION. THE MINIMUM VENTILATION RATES SHALL BE 50 CUBIC FEET PER MIN. FOR INTERMITTENT VENTILATION OR 25 CUBIC FEET PER MIN. FOR CONTINUOUS VENTILATION. PER CBC R303.5

SHOWER HEADS: SHOWER HEADS SHALL BE DESIGNED & INSTALLED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI. CPC 408.2 FAUCETS:

FAUCETS AT KITCHENS, LAVATORIES, WETBARS, LAUNDRY SINKS, OR OTHER SIMILAR USE FIXTURES SHALL BE DESIGNED & MANUFACTURED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF: KITCHEN 1.8 @ 60 PSI, LAV. FAUCETS 1.2 @ 60 PSI. ALL OTHERS 2.2 @ 60 PSI CPC 407 HIGH EFFICIENCY TOILETS

NEW WATER CLOSETS & ASSOCIATED FLUSHOMETER VALVES SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH. CPC 411 SEWER CLEANOUTS

PROVIDE SEMER CLEANOUT WITHIN 1 FOOT OF EASEMENT, WITHIN 2 FEET OF EACH DWELLING 4 AT 100 FOOT INTERVALS. CPC 719, 721 SANITARY SEWER BACK FLOW VALVE

VERIFY IF THE NEST UPSTREAM MANHOLE IS 12" OR MORE BELOW THE FLOOD LEVEL RIMS OF FIXTURES SERVICES BY DRAINAGE PIPING. PROVIDE BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVELS LESS THAN 12 ABOVE THE ELEVATION ABOVE THE NEXT UPSTREAM MANHOLES PER CPC 710.0. ELECTRIC VEHICLE CHARGING STATION:

ALL SINGLE-FAMILY RESIDENTIAL BUILDINGS, LOW-RISE MULTIFAMILY BUILDINGS WITH PRIVATE GARAGES, & ADU'S SHALL PROVIDE TWO WIRED NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) OUTLETS, EACH SUPPLIED BY A SEPARATE 40 AMP MIN. DEDICATED BRANCH CIRCUIT, & SHALL BE INSTALLED SPECIFICALLY FOR SUPPLYING ELECTRICAL POWER TO AN ELECTRIC VEHICLE CHARGER. ONE OUTLET SHALL BE INSTALLED INSIDE THE GARAGE & THE OTHER OUTLET SHALL BE INSTALLED OUTSIDE THE GARAGE.

LIGHTING LUMINAIRE REQUIREMENTS LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN

ACCORDANCE WITH TABLE 150.0-A. RECESSED LUMNIAIRES IN INSULATED CEILINGS I. BE LISTED, AS DEFINED IN SECTION 100.1, FOR ZERO CLEARANCE INSULATION CONTACT (IC) BY UNDERWRITERS LABORATORIES OR OTHER NATIONALLY

RECOGNIZED TESTING/RATING LABORATORY; & ii. HAVE A LABEL THAT CERTIFIES 'HE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALE WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; \ddagger iii. Be sealed with a gasket of CAULK BETWEEN THE LUMINAIRE HOUSING & CEILING, & HAVE ALL AIR LEAK PATHS CAULK BETWEEN THE LUMINAIRE HOUSING & CEILING, & HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED & UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK; & IV. FOR LUMINAIRES WITH HARDWIRED BALLASTS OR DRIVERS, ALLOW BALLAST OR DRIVER MAINTENANCE & REPLACEMENT TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRING THE CUTTING OF HOLES IN THE CEILING; & V. SHALL NOT CONTAIN SCREW BASE SOCKETS; & SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH REFERENCES JOINT APPENDIX

4 SHALL CONTAIN LIGHT SCOROLS THAT COURT LT ATTAINE ALL LICENCES SCIENT ATTEINDIX JA8, INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, & THAT ARE MARKED "JA8-2019-E" AS SPECIFIED IN REFERENCE JOINT APPENDIX JA8. A. SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8. EXCEPTION; LUMINAIRES WITH HARD-WIRED BALLASTS FOR HIGH INTENSITY DISCHARGE LAMPS. JA8 COMPLIANT LIGHT SOURCES

MUST BE MARKED AS "JA8-2019" OR "JA8-2019-E"(JA8-2016-E LUMINAIRES ARE DEEMED APPROPRIATE FOR USE IN ENCLOSED LUMINAIRES). CEC 150.0(k)G B. ALL JA8 COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE CONTROLLED BY VACANCY SENSORS OR DIMMERS (EXCEPTION CLOSETS LESS THAN 70 SF & HALLWAYS. CEC 150.0(k)(2K): C. AT LEAST ONE FIXTURE IN THE SHOP CONTROLLED BY A VACANCY SENSOR. CEC 150.(k)21 ALL OUTDOOR LIGHTING SHALL BE HIGH EFFICACY WITH MANUAL ON/OFF SWITCH

& ONE OF THE FOLLOWING IN ACCORDANCE WITH CEC 150.0(K)3: i. PHOTOCELL & MOTION SENSOR ii. PHOTOCELL & AUTOMATIC TIME SWITCH CONTROL iii. ASTRONOMICAL TIME SWITCH CONTROL iv. ENERGY MANAGEMENT CONTROL SYSTEMS

D. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY/TOWN BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION. E. AT LEAST ONE FIXTURE IN BATHROOMS, UTILITY, LAUNDRY, & GARAGES MUST BE CONTROLLED BY A VACANCY SENSOR

A6.0 APPLIANCES, FIREPLACES, ETC.

A7.0 MECHANICAL

A8.0 ELECTRICAL

6CALE: 1/4" = '

CHECK THE MANUFACTURER'S INSTALL INSTRUCTIONS FOR ANY DOMESTIC DE THAT WILL BE INSTALLED AT THIS LOCATION. THE INSTRUCTIONS SHOU ALLOW THE DRYER TO BE CONNECTE

	REVISIONS	
INTERSYSTEM - PANEL 52.A.3	1 COMMENTS 6/16/2	2
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N-RISE 5, ∉ ADU'S CAL , EACH TED BRANCH]
OR SUPPLYING HARGER. ONE HE & THE OTHER AGE.	95-2555	
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P LOADS MIN. OF 5 KWH.	1 A ⁷	
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	26 OF 58	

ELEC./MECH. NOTES

THE DISCHARGE POINT FOR EXHAUST AIR WILL BE AT LEAST 3 FT. FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING. CMC 504.4 EXHAUST AIR

HOSE BIBBS

ALL HOSE BIBBS TO HAVE BACKFLOW PREVENTION DEVICES. CPC 603.4.6 ANTI-HAMMER VALVES PROVIDE ANTI-HAMMER VALVES WITH ACCESS PANELS AT DISHWASHER & WASHING MACHINE. CPC 609.10

AIR DUCTS ALL AIR DUCTS PENETRATING SEPARATION WALL OR CEILING BETWEEN GARAGE & LIVING AREA SHALL BE 26 GA. MIN. CRC R302.5.2 SHOWERS & TUB SHOWERS

PROVIDE INDIVIDUAL CONTROL VALVES FOR THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. CPC 408.3 ELEC. BOND @ W.H. PIPES PROVIDE ELECTRICAL BOND BETWEEN INTERIOR GAS LINES & HOT & COLD LINES AT

WATER HEATER. CEC 250.104 PIPING

ALL HOT WATER PIPES SHALL BE INSULATED FULL LENGTH. ALL PIPING SHALL BE ENGINEERED PARALLEL W/ DEMAND CONTROLLED CIRCULATION PUMP. CPC 609.11, CPC L601.3.1 SMOKE/CARBON MONOXIDE DETECTORS

SMOKE DETECTORS SHALL BE INTERCONNECTED WITH BATTERY BACKUP IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED, ALARMS SHALL BE INSTALLED IN ALL SLEEPING ROOMS & OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, NOT LESS THAN 3' FROM

BATHROOMS, MORE THAN 20' FROM ANY COOKING APPLIANCE. NO ALARMS & INSTRUCTIONS SHALL BE INSTALLED UNLESS THEY HAVE BEEN LISTED & APPROVED BY THE SITE FIRE MARSHALL PRIOR TO INSTALLATION. EVIDENCE MUST BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION. PER CRC R314,315 HVAC SYSTEM DESIGN HVAC SYSTEM TO ACCA MANUAL J, D, \ddagger 5 recommendations. Install unit \ddagger ductwork within conditioned space. Use duct mastic on all duct joints \ddagger

SEAMS. PROTECT DUCTS DURING CONSTRUCTION & CLEAN BEFORE OCCUPANCY. PRESSURE RELIEVE THE DUCTWORK SYSTEM. PROVIDE HIGH EFFICIENCY HVAC FILTER (MERV 13+) WALL & FLOOR PENETRATIONS

ALL MECHANICAL, PLUMBING, ELECTRICAL & SIMILAR PENETRATIONS OF THE FLOOR & CEILING SHALL BE FIRE CAULKED WITH A RESIDENTIAL RATED CAULK WITH AN ASTM RATING OF E136. GFCI OUTLETS

GROUND-FAULT CIRCUIT-INTERRUPTERS ARE REQUIRED TO PROTECT THE RECEPTACLES IN BATHROOMS, GARAGES, OUTDOORS, KITCHENS, & LAUNDRY AREAS, & DISHWASHER BRANCH CIRCUITS, GFCI RECEPTACLES CAN BE USED ON AN ARC-FAULT PROTECTED CIRCUIT. CEC 210.3 APPLIANCE BRANCH CIRCUITS PROVIDE TWO APPLIANCE BRANCH CIRCUITS IN KITCHEN THAT ARE LIMITED TO

SUPPLYING WALL OR COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. NOTE: THESE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHERS OR MICROWAVES-ONLY REQUIRED COUNTER TOP/WALL OUTLETS INCLUDING REFRIGERATOR CEC 210.50 BATHROOM DEDICATED CIRCUIT

A DEDICATED 20-AMP CIRCUIT IS REQUIRED TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTACLES, LIGHTS, FANS, ETC. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) CEC 210.11

LAUNDRY DEDICATED CIRCUIT A DEDICATED 20-AMP BRANCH CIRCUIT IS REQUIRED TO SERVE THE LAUNDRY RECEPTACLE OUTLETS. CEC 210.11

AFCI BRANCH CIRCUITS ALL 120V 15 & 20 AMP ELECTRICAL CIRCUITS SUPPLYING OUTLETS (LIGHTING & RECEPTACLES) INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, OR COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUITS. PROTECTED. CEC 210.12

BATHROOM VENTILATION BATHROOMS CONTAINING BATHTUBS, SHOWERS OR SPAS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE CMC PER CRC SECTION R303.3. BATHROOM FANS TO BE ENERGY STAR RATED, VENTED TO THE OUTSIDE, & CONTROLLED WITH A HUMIDISTAT SWITCH. CGBSC 4.506 DOOR BELL/BUZZER

DOOR BUZZER, BELL, OR CHIME SHALL BE HARD WIRES AT THE PRIMARY ENTRANCE. RECEPTACLES ALL RECEPTACLES SHALL BE TAMPER RESISTANT. CEC 406.12 SPACING, RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY

ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6' FROM A RECEPTACLE OUTLET. ANY SPACE 2' OR MORE IN WIDTH, SPACE AFFORDED BY FIXED ROOM DIVIDERS. FLOOR OUTLETS SHALL NOT BE COUNTED AS PART OF THE REQ'D NUMBER UNLESS WITHIN 18" OF THE WALL. CEC 210.52 MECHANICAL VENTILATION

IN BATHROOMS, WATER CLOSETS COMPARTMENTS & OTHER SIMILAR ROOMS THAT DON'T HAVE THE REQUIRED NATURAL VENTILATION. PROVIDE MECHANICAL VENTILATION. THE MINIMUM VENTILATION RATES SHALL BE 50 CUBIC FEET PER MIN. FOR INTERMITTENT VENTILATION OR 25 CUBIC FEET PER MIN. FOR CONTINUOUS VENTILATION. PER CBC R303.5

SHOWER HEADS: SHOWER HEADS SHALL BE DESIGNED & INSTALLED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI. CPC 408.2 FAUCETS:

FAUCETS AT KITCHENS, LAVATORIES, WETBARS, LAUNDRY SINKS, OR OTHER SIMILAR USE FIXTURES SHALL BE DESIGNED & MANUFACTURED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF: KITCHEN 1.8 @ 60 PSI, LAV. FAUCETS 1.2 @ 60 PSI. ALL OTHERS 2.2 @ 60 PSI CPC 407 HIGH EFFICIENCY TOILETS

NEW WATER CLOSETS & ASSOCIATED FLUSHOMETER VALVES SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH. CPC 411 SEWER CLEANOUTS

PROVIDE SEWER CLEANOUT WITHIN 1 FOOT OF EASEMENT, WITHIN 2 FEET OF EACH DWELLING & AT 100 FOOT INTERVALS. CPC 719, 721 SANITARY SEWER BACK FLOW VALVE

VERIFY IF THE NEST UPSTREAM MANHOLE IS 12" OR MORE BELOW THE FLOOD LEVEL RIMS OF FIXTURES SERVICES BY DRAINAGE PIPING. PROVIDE BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVELS LESS THAN 12 ABOVE THE ELEVATION ABOVE THE NEXT UPSTREAM MANHOLES PER CPC 710.0. ELECTRIC VEHICLE CHARGING STATION:

ALL SINGLE-FAMILY RESIDENTIAL BUILDINGS, LOW-RISE MULTIFAMILY BUILDINGS WITH PRIVATE GARAGES, & ADU'S SHALL PROVIDE TWO WIRED NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) OUTLETS, EACH SUPPLIED BY A SEPARATE 40 AMP MIN. DEDICATED BRANCH CIRCUIT, & SHALL BE INSTALLED SPECIFICALLY FOR SUPPLYING ELECTRICAL POWER TO AN ELECTRIC VEHICLE CHARGER. ONE OUTLET SHALL BE INSTALLED INSIDE THE GARAGE & THE OTHER OUTLET SHALL BE INSTALLED OUTSIDE THE GARAGE. LIGHTING

LUMINAIRE REQUIREMENTS LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH TABLE 150.0-A. RECESSED LUMNIAIRES IN INSULATED CEILINGS

I. BE LISTED, AS DEFINED IN SECTION 100.1, FOR ZERO CLEARANCE INSULATION CONTACT (IC) BY UNDERWRITERS LABORATORIES OR OTHER NATIONALLY RECOGNIZED TESTING/RATING LABORATORY; & II. HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; & III. BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING & CEILING, & HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED & UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK; & IV. FOR LUMINAIRES WITH HARDWIRED BALLASTS OR DRIVERS, ALLOW BALLAST OR DRIVER MAINTENANCE & REPLACEMENT TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRING THE CUTTING OF HOLES IN THE CEILING; & V. SHALL NOT CONTAIN SCREW BASE SOCKETS; & SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH REFERENCES JOINT APPENDIX IAS INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, & THAT ARE MARKED

JA8, INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, & THAT ARE MARKED "JA8-2019-E" AS SPECIFIED IN REFERENCE JOINT APPENDIX JA8. A. SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8. EXCEPTION; LUMINAIRES WITH HARD-WIRED BALLASTS FOR HIGH INTENSITY DISCHARGE LAMPS. JA8 COMPLIANT LIGHT SOURCES MUST BE MARKED AS "JA8-2019" OR "JA8-2019-E"(JA8-2016-E LUMINAIRES ARE DEEMED APPROPRIATE FOR USE IN ENCLOSED LUMINAIRES). CEC 150.0(k)G B. ALL JA8 COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE

CONTROLLED BY VACANCY SENSORS OR DIMMERS (EXCEPTION CLOSETS LESS THAN 70 SF & HALLWAYS. CEC 150.0(k)(2K): C. AT LEAST ONE FIXTURE IN THE SHOP CONTROLLED BY A VACANCY SENSOR. CEC 150.(k)21 SENSOR. CEC 150.(K)21 ALL OUTDOOR LIGHTING SHALL BE HIGH EFFICACY WITH MANUAL ON/OFF SWITCH ¢ ONE OF THE FOLLOWING IN ACCORDANCE WITH CEC 150.0(K)3: i. PHOTOCELL ¢ MOTION SENSOR ii. PHOTOCELL ¢ AUTOMATIC TIME SWITCH CONTROL iii. ASTRONOMICAL TIME SWITCH CONTROL iv. ENERGY MANAGEMENT CONTROL SYSTEMS D. ACTIVITIES CEDEN AND SENSOR

D. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY/TOWN BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION. E. AT LEAST ONE FIXTURE IN BATHROOMS, UTILITY, LAUNDRY, & GARAGES MUST BE CONTROLLED BY A VACANCY SENSOR

NOTE TO MECHANICAL CONTRACTOR: following methods:

handbooks or other equivalent design software or methods. other equivalent design software or methods.

Section 4.1.2 when determining the final mechanical ventilation rate. ventilation with outdoor air at a rate not less than specified in Section 4.1.1.

Table 4-1a

where Qtot = total required ventilation rate, cfm

LOCAL EXHAUST system for all other kitchens and bathrooms shall be either one of the following:

able 5-1 Demand-Controlled Local Ventilation Exhaust Airflow Rates cation Airflow nclosed kitchen

or in the connected ventilation ducts.

not less than the hydraulic diameter of the fan outlet. Table 5-3 Prescriptive Duct Sizing Fan Airflow Rating CFM at minimum tatic pressure of 25 in. of water /s at minimum

2.51 a)									
ouct Type	Minii	mum D	uct Dia	imeter,	in. (mn	n) a,b			
Rigid duct	4 ^e (100) 4	5 (125) 5	5 (125) 6	6 (150)	6 (150) 7	7 (180) 7	7 (180) 8	8 (205) 8	(23 0
lex duct ^c	(100)	(125)	(150)	(150)	, (150)	, (180)	(205)	(205)	(23
. For noncircular of	ducts, d	alculat	e the d	liamete	r as fou	ur times	s the cr	oss-se	ctio

b. NP = application of the prescriptive table is not permitted for this scenario. duct elbows to have a minimum bend radius to d. For this scenario, use of elbows is not permitted.

EXHAUST ONLY $Q_{fan} = 0.03A_{floor} + 7.5(N_{br}+1)$ DUV = DWELLING UNIT VENTILATION

ELEC/MECH MAIN FLOOR PLAN

A7.0 MECHANICAL

EXHAUST AIR THE DISCHARGE POINT FOR EXHAUST AIR WILL BE AT LEAST 3 FT. FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING. CMC 504.4

HOSE BIBBS ALL HOSE BIBBS TO HAVE BACKFLOW PREVENTION DEVICES. CPC 603.4.6

ANTI-HAMMER VALVES PROVIDE ANTI-HAMMER VALVES WITH ACCESS PANELS AT DISHWASHER & WASHING MACHINE. CPC 609.10

AIR DUCTS ALL AIR DUCTS PENETRATING SEPARATION WALL OR CEILING BETWEEN GARAGE \$ LIVING AREA SHALL BE 26 GA. MIN. CRC R302.5.2 SHOWERS & TUB SHOWERS

PROVIDE INDIVIDUAL CONTROL VALVES FOR THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. CPC 408.3 ELEC. BOND @ W.H. PIPES

PROVIDE ELECTRICAL BOND BETWEEN INTERIOR GAS LINES & HOT & COLD LINES AT WATER HEATER. CEC 250.104 PIPING

ALL HOT WATER PIPES SHALL BE INSULATED FULL LENGTH. ALL PIPING SHALL BE ENGINEERED PARALLEL W/ DEMAND CONTROLLED CIRCULATION PUMP. CPC 609.11 CPC L601.3. SMOKE/CARBON MONOXIDE DETECTORS

SMOKE DETECTORS SHALL BE INTERCONNECTED WITH BATTERY BACKUP IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER IN THE UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. ALARMS SHALL BE INSTALLED IN ALL SLEEPING ROOMS & OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, NOT LESS THAN 3' FROM BATHROOMS, MORE THAN 20' FROM ANY COOKING APPLIANCE. NO ALARMS & INSTRUCTIONS SHALL BE INSTALLED UNLESS THEY HAVE BEEN LISTED & APPROVED BY THE SITE FIRE MARSHALL FRIOR TO INSTALLATION. EVIDENCE MUST BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION. PER CRC R314 315 R314,315

HVAC SYSTEM DESIGN HVAC SYSTEM TO ACCA MANUAL J, D, \pounds S RECOMMENDATIONS. INSTALL UNIT \pounds Ductwork within conditioned space. Use duct mastic on all duct joints \pounds SEAMS. PROTECT DUCTS DURING CONSTRUCTION & CLEAN BEFORE OCCUPANCY. PRESSURE RELIEVE THE DUCTWORK SYSTEM. PROVIDE HIGH EFFICIENCY HVAC FILTER (MERV 13+

WALL & FLOOR PENETRATIONS ALL MECHANICAL, PLUMBING, ELECTRICAL & SIMILAR PENETRATIONS OF THE FLOOR & CEILING SHALL BE FIRE CAULKED WITH A RESIDENTIAL RATED CAULK WITH AN ASTM RATING OF E136. GFCI OUTLETS

GROUND-FAULT CIRCUIT-INTERRUPTERS ARE REQUIRED TO PROTECT THE RECEPTACLES IN BATHROOMS, GARAGES, OUTDOORS, KITCHENS, & LAUNDRY AREAS, & DISHWASHER BRANCH CIRCUITS. GFCI RECEPTACLES CAN BE USED ON AN ARC-FAULT PROTECTED CIRCUIT. CEC 210.8 APPLIANCE BRANCH CIRCUITS

PROVIDE TWO APPLIANCE BRANCH CIRCUITS IN KITCHEN THAT ARE LIMITED TO SUPPLYING WALL OR COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. NOTE: THESE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHERS OF MICROWAVES-ONLY REQUIRED COUNTER TOP/WALL OUTLETS INCLUDING REFRIGERATOR CEC 210.50 BATHROOM DEDICATED CIRCUIT

A DEDICATED 20-AMP CIRCUIT IS REQUIRED TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTACLES, LIGHTS, FANS, ETC. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) CEC 210.11

LAUNDRY DEDICATED CIRCUIT A DEDICATED 20-AMP BRANCH CIRCUIT IS REQUIRED TO SERVE THE LAUNDRY RECEPTACLE OUTLETS. CEC 210.11 AFCI BRANCH CIRCUITS

ALL 120V 15 & 20 AMP ELECTRICAL CIRCUITS SUPPLYING OUTLETS (LIGHTING & RECEPTACLES) INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLMAYS, LAUNDRY AREAS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, OR COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUITS. PROTECTED. CEC 210.12

BATHROOM VENTILATION BATHROOMS CONTAINING BATHTUBS, SHOWERS OR SPAS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE CMC PER CRC SECTION R303.3. BATHROOM FANS TO BE ENERGY STAR RATED, VENTED TO THE OUTSIDE, & CONTROLLED WITH A HUMIDISTAT SWITCH. CGBSC 4.506

DOOR BELL/BUZZER DOOR BUZZER, BELL, OR CHIME SHALL BE HARD WIRES AT THE PRIMARY ENTRANCE. RECEPTACLES ALL RECEPTACLES SHALL BE TAMPER RESISTANT. CEC 406.12 SPACING, RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY

ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN & FROM A RECEPTACLE OUTLET. ANY SPACE 2' OR MORE IN WIDTH, SPACE AFFORDED BY FIXED ROOM DIVIDERS. FLOOR OUTLETS SHALL NOT BE COUNTED AS PART OF THE REQ'D NUMBER UNLESS WITHIN 18" OF THE WALL. CEC 210.52 MECHANICAL VENTILATION

IN BATHROOMS, WATER CLOSETS COMPARTMENTS & OTHER SIMILAR ROOMS THAT DON'T HAVE THE REQUIRED NATURAL VENTILATION. PROVIDE MECHANICAL VENTILATION. THE MINIMUM VENTILATION RATES SHALL BE 50 CUBIC FEET PER MIN. FOR INTERMITTENT VENTILATION OR 25 CUBIC FEET PER MIN. FOR CONTINUOUS VENTILATION. PER CBC R303.5

SHOWER HEADS: SHOWER HEADS SHALL BE DESIGNED & INSTALLED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI. CPC 408.2 FAUCETS:

FAUCETS AT KITCHENS, LAVATORIES, WETBARS, LAUNDRY SINKS, OR OTHER SIMILAR USE FIXTURES SHALL BE DESIGNED & MANUFACTURED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF: KITCHEN 1.8 @ 60 PSI, LAV. FAUCETS 1.2 @ 60 PSI. ALL OTHERS 2.2 @ 60 PSI CPC 407

HIGH EFFICIENCY TOILETS NEW WATER CLOSETS & ASSOCIATED FLUSHOMETER VALVES SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH. CPC 411 SEWER CLEANOUTS

PROVIDE SEMER CLEANOUT WITHIN 1 FOOT OF EASEMENT, WITHIN 2 FEET OF EACH DWELLING & AT 100 FOOT INTERVALS. CPC 719, 721 SANITARY SEWER BACK FLOW VALVE

VERIFY IF THE NEST UPSTREAM MANHOLE IS 12" OR MORE BELOW THE FLOOD LEVEL RIMS OF FIXTURES SERVICES BY DRAINAGE PIPING. PROVIDE BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVELS LESS THAN 12 ABOVE THE ELEVATION ABOVE THE NEXT UPSTREAM MANHOLES PER CPC 710.0.

ELECTRIC VEHICLE CHARGING STATION: ALL SINGLE-FAMILY RESIDENTIAL BUILDINGS, LOW-RISE MULTIFAMILY BUILDINGS WITH PRIVATE GARAGES, & ADUS SHALL PROVIDE TWO WIRED NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) OUTLETS, EACH SUPPLIED BY A SEPARATE 40 AMP MIN. DEDICATED BRANCH CIRCUIT, & SHALL BE INSTALLED SPECIFICALLY FOR SUPPLYING ELECTRICAL POWER TO AN ELECTRIC VEHICLE CHARGER. ONE OUTLET SHALL BE INSTALLED INSIDE THE GARAGE & THE OTHER OUTLET SHALL BE INSTALLED OUTSIDE THE GARAGE.

LIGHTING

LUMINAIRE REQUIREMENTS LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH TABLE 150.0-A. RECESSED LUMNIAIRES IN INSULATED CEILINGS

I. BE LISTED, AS DEFINED IN SECTION 100.1, FOR ZERO CLEARANCE INSULATION CONTACT (IC) BY UNDERWRITERS LABORATORIES OR OTHER NATIONALLY RECOGNIZED TESTING/RATING LABORATORY: & II. HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM 2283. AN EXHAUST FAN HOUSING SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; & III. BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING & CEILING, & HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED & UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK; & IV. FOR LUMINAIRES WITH HARDWIRED BALLASTS OR DRIVERS, ALLOW BALLAST OR DRIVER MAINTENANCE & REPLACEMENT TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRING THE CUTTING OF HOLES IN THE CEILING; & V. SHALL NOT CONTAIN SCREW BASE SOCKETS; & SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH REFERENCES JOINT APPENDIX IAS. INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, & THAT ARE MARKED

4 SHALL CONTAIN LIGHT SOURCES THAT COULD LET ATTAINE ALL EREINDES SOURT ATTEINDED JA8, INCLUDING THE ELEVATED TEMPERATURE REQUIREMENTS, & THAT ARE MARKED "JA8-2019-E" AS SPECIFIED IN REFERENCE JOINT APPENDIX JA8. A. SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8. EXCEPTION; LUMINAIRES WITH HARD-WIRED BALLASTS FOR HIGH INTENSITY DISCHARGE LAMPS. JA8 COMPLIANT LIGHT SOURCES

MUST BE MARKED AS "JA8-2019" OR "JA8-2019-E" (JA8-2016-E LUMINAIRES ARE DEEMED APPROPRIATE FOR USE IN ENCLOSED LUMINAIRES). CEC 150.0(k)G B. ALL JA8 COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE CONTROLLED BY VACANCY SENSORS OR DIMMERS (EXCEPTION CLOSETS LESS HAN 70 SF & HALLWAYS. CEC 150.0(k)(2k): . AT LEAST ONE FIXTURE IN THE SHOP CONTROLLED BY A VACANCY SENSOR. CEC 150.(K)21 ALL OUTDOOR LIGHTING SHALL BE HIGH EFFICACY WITH MANUAL ON/OFF SWITCH

& ONE OF THE FOLLOWING IN ACCORDANCE WITH CEC 150.0(k)3: i. PHOTOCELL & MOTION SENSOR ii. PHOTOCELL & AUTOMATIC TIME SWITCH CONTROL iii. ASTRONOMICAL TIME SWITCH CONTROL iv. ENERGY MANAGEMENT CONTROL SYSTEMS

D. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY/TOWN BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION. E. AT LEAST ONE FIXTURE IN BATHROOMS, UTILITY, LAUNDRY, & GARAGES MUST BE CONTROLLED BY A VACANCY SENSOR NOTE TO MECHANICAL CONTRACTOR: Heating and air-conditioning system design. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- ASHRAE handbooks or other equivalent design software or methods.
- 2. Duct systems are sized according to ACCA 29-D Manual D, ASHRAE handbooks or other equivalent design software or methods.
- 3. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods. CGBSC 4.507.2

A2. DWELLING-UNIT MECHANICAL VENTILATION RATE (from ANSI/ASHRAE 62.2-2019) The required mechanical ventilation rate (Qfan) shall be the rate Qtot in Section 4.1.1 plus the required additional airflow calculated in accordance with Section A3. If the airtightness of the building envelope has been measured, the required mechanical ventilation rate may be

reduced as described in Section 4.1.2 In these cases, Section A3 shall be applied before Section 4.1.2 when determining the final mechanical ventilation rate. Ventilation Rate. A mechanical exhaust system, supply system, or combination thereof, shall be installed to operate for each dwelling unit to provide continuous dwelling-unit ventilation with outdoor air at a rate not less than specified in Section 4.1.1. .1.1 Total Ventilation Rate. The total required ventilation rate (Qtot) shall be as specified in Table 4-1a

(I-P) or 4-1b (SI) or alternatively calculated using Equation 4-1a (I-P) or 4-1b (SI) Qtot = 0.03Afloor + 7.5(Nbr + 1)where

where	
	Qtot = total required ventilation rate, cf
	Afloor = dwelling-unit floor area, ft2
	Nbr = number of bedrooms (not to be I
L EXHA	AUST

5. LOCAL Local Mechanical Exhaust. A local mechanical exhaust system shall be installed in each itchen and bathroom. Nonenclosed kitchens shall be provided with a demand-controlled nechanical exhaust system meeting the requirements of Section 5.2. Each local ventilation system for all other kitchens and bathrooms shall be either one of the following: . A demand-controlled mechanical exhaust system meeting the requirements of Section b. A continuous mechanical exhaust system meeting the requirements of Section 5.3 Table 5-1 Demand-Controlled Local Ventilation Exhaust Airflow Rates

lication Airflow Vented range hood (including appliance-range hood combinations): 100 cfm losed kitchen Other kitchen exhaust fans, including downdraft: 300 cfm or a capacity of 5 ach nenclosed kitchen • Vented range hood (including appliance-range hood combinations): 100 cfm • Other kitchen exhaust fans, including downdraft: 300 cfm (150 L/s) Air Changes per Hour (ACH), which is determined dy multiplying the volume of the space by 5, ACH = cubic feet per hour, and then dividing by 60 minutes per hour to determine the cubic feet per minute. (cfm).

5.4 Airflow Measurement. The airflow required by this section is the quantity of indoor air hausted by the ventilation system as installed and shall be measured according to the ntilation equipment manufacturer instructions, or by using a flow hood, flow grid, or other irflow measuring device at the mechanical ventilation fan's inlet terminals, outlet terminals, or in the connected ventilation ducts. Exception to 5.4: Manufacturer design criteria or the prescriptive requirements of Table 5-3 shall be permitted in place of a measurement. When using Table 5-3, the airflow rating according to Section 7.1 shall meet or exceed a static pressure of 0.25 in. of water (62.5 Pa). Use of Table 5-3 is limited to duct systems not exceeding 25 ft (8 m) in length, duct

systems with no more than three (3) elbows, and duct systems with exterior termination fittings having a hydraulic diameter greater than or equal to the minimum duct diameter and ot less than the hydraulic diameter of the fan outlet. Table 5-3 Prescriptive Duct Sizing 1 -- 1 -- 1

Fan Airflow Rating, CFM at minimum static pressure of 0.25 in. of water (L/s at minimum 62.5 Pa)	≤50 (25)	≤80 (40)	≤100 (50)	≤125 (60)	≤150 (70)	≤175 (85)	≤20 (95
Duct Type	Minii	mum D	uct Dia	imeter,	in. (mn	n) a,b	
Rigid duct	4 ^e (100)	5 (125)	5 (125)	6 (150)	6 (150)	7 (180)	7 (180
Flex duct ^c	4	5	$\hat{6}$	6	7	7	8

a. For noncircular ducts, calculate the diameter as four times the cross-sectional area divided by the b. NP = application of the prescriptive table is not permitted for this scenario. c. Use of this table for verification of flex duct systems requires flex duct to be fully extended and any flex duct elbows to have a minimum bend radius to d. For this scenario, use of elbows is not permitted.

e. For this scenario, 4 in. (100 mm) oval duct shall be permitted, provided the minor axis of the oval is greater than or equal to 3 in. (75 mm). EXHAUST ONLY $Q_{fan} = 0.03A_{floor} + 7.5(N_{br}+1)$

DUV = DWELLING UNIT VENTILATION KITCHEN WILL PROVIDE LOCAL VENTILATION EXHAUST

NOTE FOR DRYER OR STACKER LAUNDRY CENTER: A DURABLE PLACARD (MIN. SIZE OF 4"X5") MUST BE PERMANENTLY AFFIXED ON A WALL NEAR & VISIBLE FROM THE DRYER LOCATION. THE PLACARD SHALL STATE THE ACTUAL LENGTH OF THE INSTALLED DRYER EXHAUST VENT & INCLUDE THE FOLLOWING LANGUAGE: WARNING: CHECK THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ANY DOMESTIC DRYER THAT WILL BE INSTALLED AT THIS LOCATION. THE INSTRUCTIONS SHOULD ALLOW THE DRYER TO BE CONNECTED TO AN EXHAUST DUCT (VENT) THAT IS A MAXIMUM <u>10'</u> LONG. DO NOT REMOVE THIS PLACARD

A5.

ELEC/MECH UPPER FLOOR PLAN

<u>A6.</u> C	APPLIANCES, FIREPLACES, ETC.	<u>A</u> 7
A6.1	48" INDUCTION RANGE PROVIDE 240V POWER SOURCE ON SEPARATE CIRCUIT.	4
A6.2	RANGE VENT HOOD PROVIDE VENT HOOD W/ LIGHT AND VENTED TO EXTERIOR. PROVIDE NECESSARY POWER SOURCE. MIN. 100CFM WHERE COMBUSTION APPLIANCES OR SOLID-FUEL BURNING APPLIANCES ARE LOCATED INSIDE THE PRESSURE BOUNDARY, THE MAXIMUM ALLOWABLE NET EXHAUST FLOW OF THE TWO LARGEST EXHAUST FANS SHALL NOT EXCEED 15 CFM PER 100 SQ FT. OF OCCUPIABLE SPACE, WHEN OPERATING AT FULL CAPACITY. IF THE DESIGNED TOTAL NET FLOW EXCEEDS THIS LIMIT, THE NET EXHAUST FLOW MUST BE REDUCED BY REDUCING THE EXHAUST FLOW OR PROVIDING COMPENSATING OUT-DOOR AIRFLOW (NOTE: IF MAKE-UP AIR FAN IS INSTALLED IT MUST BE ELECTRICALLY INTERLOCKED WITH THE LARGEST EXHAUST FAN). ASHRAE 62.2 § 6.4	A
A6.3	COUNTER DEPTH REFRIGERATOR/FREEZER PROVIDE 36" ENERGY STAR REFRIGERATOR/FREEZER W/ WATER FOR AUTOMATIC ICE MAKER	
A6.4	DISHWASHER PROVIDE ENERGY STAR DISHWASHER USING \leq 3.5 GA/ CYCLE & \leq 270 kWh/YEAR. NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OF FOOR WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER AIR GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLOOD-LEVEL (FL) MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OF DRAINBOARD, WHICHEVER IS HIGHER. CPC § 807.3	
A6.5	WASHER FRONT LOADING WASHING MACHINE TO MEET ENERGY STAR AND CEE TIER 2 REQUIREMENTS (MODIFIED ENERGY FACTOR 2.0, WATER FACTOR 6.0)	
A6.6	DRYER PROVIDE 4" ϕ min. VENT with Backdraft Damper to Extended at clother Dryer. May length 14' M/2 20'	

EXTERIOR AT CLOTHES DRYER. MAX. LENGTH 14' W/2 90° ELEOWS FROM THE CLOTHES DRYER TO THE POINT OF TERMINATION. REDUCE THIS LENGTH BY 2' FOR EVERY ELEOW IN EXCESS OF 2. PER CMC 504.4.2. MAINTAIN 6" MIN. CLEARANCE TO COMBUSTIBLES UNLESS DRYER IS LISTED FOR REDUCED CLEARANCE.

STACKED WASHER/DRYER PROVIDE 4"Ø MIN. VENT WITH BACKDRAFT DAMPER TO EXTERIOR AT CLOTHES DRYER. MAX. LENGTH 14' W/2 90° ELBOWS FROM THE CLOTHES DRYER TO THE POINT OF TERMINATION. REDUCE THIS LENGTH BY 2' FOR EVERY ELBOW IN EXCESS OF 2. PER CMC 504.4.2. MAINTAIN 6" MIN. CLEARANCE TO COMBUSTIBLES UNLESS DRYER IS LISTED FOR REDUCED CLEARANCE. COMPACT REFRIDGERATOR

PROVIDE ENERGY STAR REFRIGERATOR W/WATER HOOKUP FOR ICE MAKER UNDER COUNTER REFRIGERATOR/FREEZER

PROVIDE 24" ENERGY STAR UNDER COUNTER REFRIGERATOR/FREEZER

- MECHANICAL EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT & DUCTED TO TERMINATE OUTSIDE THE BUILDING, & SHALL BE CONTROLLED BY A HUMIDISTAT THAT IS CAPABLE OF ADJUSTING THE RELATIVE HUMIDITY BETWEEN 50%-80%. CGBSC 4.506.1
- 47.2 HEAT PUMP UNIT PROVIDE HIGH EFFICIENCY A.C. UNIT W/ ENVIRONMENTALLY RESPONSIBLE REFRIGERANTS ANCHORED ON AN APPROVED PAD THAT IS A MIN. OF 3" ABOVE THE FINISHED GRADE OR ANDSCAPING
- T.3 AIR HANDLER PROVIDE MIN. 240V OUTLET FOR SERVICE EQUIPMENT. UNLESS OTHERWISE SPECIFIED, NOT LESS THAN 30" IN DEPTH, WIDTH & HEIGHT OF WORKING SPACE SHALL BE PROVIDED.
- 7.4 ENERGY RECOVERY VENTILATION PROVIDE PANASONIC FV-10VEC2 OR RENEWAIRE EV200 ERV BALANCED VENTILATION FAN PER TITLE 24. A MANUAL SWITCH FOR THE BUILDING VENTILATION MUST BE LABELED WITH THE FOLLOWING TEXT "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR" CENC § 150.0 (0) 1

7.5 DRYER VENT A DURABLE PLACARD (MIN. SIZE OF 4"X5") MUST BE PERMANENTLY AFFIXED ON A WALL NEAR & VISIBLE FROM THE DRYER LOCATION. THE PLACARD SHALL STATE THE ACTUAL LENGTH OF THE INSTALLED DRYER EXHAUST VENT & INCLUDE THE FOLLOWING LANGUAGE: SEE NOTE THIS PAGE FOR LENGTH

6 RESIDENTIAL ELEVATOR RESIDENTIAL ELEVATOR SHALL COMPLY WITH ASME A17.1 CRC

A8.0 ELECTRICAL 400 AMP. POWER PANEL-MAIN ELECTRICAL POWER PANEL W/ METER. PROVIDE INTERSYSTEM BONDING DEVICE AT OR NEAR MAIN ELECTRICAL PANEL CONNECTED TO UFER GROUND CEC 250.94 250.52.A.3 A8.2 POWER SUB-PANEL SUB-PANEL-SIZE TO BE DETERMINED BY ELECTRICIAN A8.3 ELECTRIC VEHICLE CHARGING ALL SINGLE-FAMILY RESIDENTIAL BUILDINGS, LOW-RISE MULTIFAMILY BUILDINGS WITH PRIVATE GARAGES, & ADU'S SHALL PROVIDE TWO WIRED NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) OUTLETS, EACH SUPPLIED BY A SEPARATE 40 AMP MIN. DEDICATED BRANCH CIRCUIT, & SHALL BE INSTALLED SPECIFICALLY FOR SUPPLYING ELECTRICAL POWER TO AN ELECTRIC VEHICLE CHARGER. ONE OUTLET SHALL BE INSTALLED INSIDE THE GARAGE & THE OTHER OUTLET SHALL BE INSTALLED OUTSIDE THE GARAGE.

A8.4 BATTERY BACKUP 5kwh MIN. DATTERT DACKUP DRWITMIN. ALL SINGLE-FAMILY RESIDENTIAL BUILDINGS, LOW-RISE MULTIFAMILY BUILDINGS, & ADU'S SHALL BE PREWIRED FOR THE INSTALLATION OF BATTERY STORAGE. THE PREWIRING SHALL BE IN ACCORDANCE WITH CALIFORNIA BUILDING, RESIDENTIAL, & ELECTRICAL CODES & BE ADEQUATELY SIZED BY A LICENSED PROFESSIONAL TO ACCOMMODATE THE BACK-UP LOADS INSTALLED IN THE CRITICAL LOAD PANEL WITH A MIN. OF 5 KWH.

ELECTRIC/MECHANICAL LEGEND

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WATER HEATING SYSTEMS 01 02 03 04 05 06 07 Name System Type Distribution Type Water Heater Name (#) Solar Heating System Compact Distribution HERS Verification DHW Sys 1 Domestic Hot Water (DHW) Demand Recirculation DHW Heater 1(2) n/a None n/a VATER HEATERS 01 02 03 04 05 06 07 08 09 10 11 12 Name Heating Element Tank Type af Tank Energy Vol, B Input Rating Tank to ation or Recirculation Standby Loss 1st Hr. Rating Or Recovery or Flow Rate Parand or Model Ambient Condition DHW Heater 1 Heating n/a 2 80 NEA Rate 12.kW n/a n/a n/a 2 Resm/PROPH80 Garage DHW Heater 1 Heat Pump n/a 2 80 NEA Rate 12.kW n/a n/a n/a 2 Resm/PROPH80 Garage DHW Heater 1 Heat Pump n/a 2 80 NEA Rated 12.kW n/a n/a <td>HVAC - DISTRIBUTION SYSTEMS Od OS O6 O7 O8 O9 10 11 12 Name Type Design Type Supply Return Supply Return Supply Return Bypass Duct Leakage HERS Air Distribution Conditioned Non-Verified R-6 R-6 Condition n/a N/a N/a Supply Return Supply <t< td=""></t<></td>	HVAC - DISTRIBUTION SYSTEMS Od OS O6 O7 O8 O9 10 11 12 Name Type Design Type Supply Return Supply Return Supply Return Bypass Duct Leakage HERS Air Distribution Conditioned Non-Verified R-6 R-6 Condition n/a N/a N/a Supply Return Supply <t< td=""></t<>
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w-Rise Residential Mandatory Measures Summary
e Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach rmation. *Exceptions may apply.
· · · · · · · · ·
enestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 cfm per square foot or less ASTM E283 or AAMA/WDMA/CSA 101/LS 2/A440-2011 *
and exterior doors must have a label meeting the requirements of Section 10-111(a).
s and renestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables exterior doors. They must be caulked and/or weather stripped.*
tions, and other openings in the building envelope that are potential sources of air leakage must be caulked,
anufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods
leated Slab Floors. Heated slab floors must be insulated per the requirements of Section 110.8(g). ctance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing
ts of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R. adiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
tion. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043.
schanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in s cof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7 including but not limited
e or below the roof deck or on top of a drywall ceiling.*
insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or
valent to an installed value of R-13 in a wood framed assembly. Masonry walls must meet Table 150.1-A or B.*
R-19 insulation in raised wood framed floor or 0.037 maximum U-factor."
we a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV talled as part of a heated slab floor, meet the requirements of § 110.8(g).
s 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor pplies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).
es 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all ented attics, and unvented attics with air-permeable insulation.
ration, including skylights, separating conditioned space from unconditioned space or outdoors must have a e weighted average U-factor of all fenestration must not exceed 0.58.*
g Measures:
y-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
actory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area
-built fireplaces must have a flue damper with a readily accessible control.*
ystem Measures: nd air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated
he manufacturer to the Energy Commission.*
th Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters and supplementary beater operation when the body and and here the the body and a supplementary beater operation when the body and and here the the body and a supplementary beater operation.
on heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for an the cut-off temperature for supplementary heating.
ling systems not controlled by a central energy management control system (EMCS) must have a
a Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must ckflow prevention, pump priming, pump isolation value, and recirculation loops connection requirements of §
bus water beaters with an input rating greater than 6.8 kBTU per hour (2 kW) must have isolation valves with hose
old and hot water lines to allow for flushing the water heater when the valves are closed.
voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); and pool and spa heaters.*
se Residential Mandatory Measures Summary
Rise Residential Mandatory Measures Summary and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. tioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the
Rise Residential Mandatory Measures Summary and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. oners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the fired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have asulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
e Residential Mandatory Measures Summary eat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. s and heat pump systems must be equipped with liquid line filter driers if required, as specified by the thot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have ation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. ng System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must ng 600 11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum
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se Residential Mandatory Measures Summary d heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. hers and heat pump systems must be equipped with liquid line filter driers if required, as specified by the red hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have sulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. ating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must ction 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum ch or a minimum insulation R-value of 7.7: the first 5 feet of cold water piping from the storage tank; all hot water equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 lomestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below urce to kitchen fixtures.*
Rise Residential Mandatory Measures Summary and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. ioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the infired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. Interating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must bection 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum inch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water are equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below source to kitchen fixtures.*
EXAMPLE AND INTEGED SET UP: In the set of
d heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. There and heat pump systems must be equipped with liquid line filter driers if required, as specified by the red hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have ulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. ating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must tion 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum ch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 omestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below urce to kitchen fixtures.* nsulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 0.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), r piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a r. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. g Systems . Systems using gas or propane water heaters to serve individual dwelling units must include all of rolt, 20 amp electrical receptacie that is connected to the electric panel with a 120/240 volt 3 conductor 10
A set pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. There are and heat pump systems must be equipped with liquid line filter driers if required, as specified by the and heat pump systems must be equipped with liquid line filter driers if required, as specified by the and how the tranks, such as storage tanks and backup storage tanks for solar water-heating systems, must have lation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. ting System Piping, and Space Conditioning System Line Insulation . All domestic hot water piping must ion 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum h or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water qual to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 mestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below ce to kitchen fixtures.* sulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a . Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Systems . Systems using gas or propane water heaters to serve individual dwelling units must include all of alt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 n 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the solated. Have a reserved single pole circuit breaker space in the electrical panel adiacent to the circuit breaker
ise Residential Mandatory Measures Summary Id heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. Iners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the ired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have sulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. Tating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must ction 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum ch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 iomestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below urce to kitchen fixtures.* insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 0.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). r piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a r. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Ig Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 hin 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the risolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker d with the words "Future 240V Use"; a Category III
ise Residential Mandatory Measures Summary Ind heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. Inners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the fired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have sulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. Bating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must totion 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum toto or a minimum insulation R-value of 7.7: the first 5 feet of cold water piping with a nominal diameter less than 3/4 domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below sucre to kitchen fixtures.* insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 20.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). er piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a ler. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Ing Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 thin 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the y isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker ed with the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe between the ace where the water heater is installe
Rise Residential Mandatory Measures Summary rand heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. litioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have i insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. -heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum 1 inch or a minimum insulation R-value of 7.7: the first 5 feet of cold water piping with a nominal diameter less than 3/4 a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below isource to kitchen fixtures. [*] ing insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 120.3(b). Insulation buried below grade must be installed in a waterproof and non-crusthable casing or sleeve. ating Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of 25 volt, 20 am gelectrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 , within 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the cally isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker beled with the words "Future 240V Use"; a Category III or IV vent, or a Type B vent with straight pipe between the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of a natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu p
Rise Residential Mandatory Measures Summary and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. itioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the Jnfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. -heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum 1 finch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank, all hot water ter equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below source to kitchen fixtures.* ng insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), rater piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a arder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. ating Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of 25 volt, 20 amp electrical receptace that is connected to the electric panel with a 120/240 volt 3 conductor, 10 within 3 feet from the water heater without obstruction. Both euclosed from than 2 inches higher than the base of a natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour. routab
A deat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. Itioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the Infired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. heating System Piping, and Space Conditioning System Line Insulation . All domestic hot water piping must Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum inch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water er equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below source to kitchen fixtures. [*] Ing insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), ater piping and ferigerant suction piping located outside the conditioned space must include, or be protected by, a rder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Iting Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of 55 volt, 20 amp electrical receptacle that is connected to the electric panel adjacent to the circuit breaker eled with the water heater without obstruction. Both ends of the unused conductor must be labeled with the aliy isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker eled with the water heating systems and collectors must be ce
Hise Residential Mandatory Measures Summary Indiheat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. Indiheat pump systems must be equipped with liquid line filter driers if required, as specified by the fired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have sulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. eating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must eation 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a ninimum inch or a minimum insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water r equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below ource to kitchen fixtures.* Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 20.3(b). Insulation buried below grade must be water retardant and protected from UV light (no adhesive tapes). Iter piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a der. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Ing Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of storady. The water scherady Use', a Category III or IV vent, or a Type B vent with straight pipe between the bace where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour. Uating loops serving multiple dwelling units must meet the r
ise Residential Mandatory Measures Summary in the term of the provided of the
See Residential Mandatory Measures Summary I heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. ers and heat pump systems must be equipped with liquid line filter driers if required, as specified by the ed hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have lation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. thing System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must tion 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum th or a minimum insulation R-value is 7.7: the first 5 feet of cold water pipings from the storage tank, all hot water squal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 mestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below ret to kitchen fittrees.* usulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and .3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). piping and refigerant suction piping located this 120/240 volt 3 conductor, 10 in 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the isolated. Have a reserved single pole circuit breaker space in the electric panel with a 120/240 volt 3 conductor, 10 in 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the isolated. Have a reserved single pole circuit breaker space in the electric panel with a 120/240 volt 3 conductor, 10 in 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the isolated. Have a reserved single pole circuit breaker space in the electric panel with a 120/240 volt 3
See Residential Mandatory Measures Summary heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. ares and heat pump systems must be equipped with liquid line filter driers if required, as specified by the ad hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have laidor or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. ting System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must lain of R-16 internal insulation R-value of 7.7: the first 5 feet of cold water pipes from the storage tank; all hot water iqual to greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 mestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below rea to kitchen fixtures. Sustation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 3(b). Insulation exposed to weather must be installed in a waterproof and non-crushable casing or sleeve. Systems systems using gas or propane water heaters to serve individual dwelling units must include all of 01; 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 aconductor, 10 in 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the solated. Have a reserved single pole circuit breaker space in the alter all and all of 01; 20 amp electrical receptacle that is connected to the electric panel water all adjacent to the circuit breaker 1 with the words "Future 24/U Use"; a Category III or IV vent, or a Type B vent with straight pipe between the a water heater is installed; a condensate drain that is no more than 2 inches higher than the base of 1 and arising without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour. 1 ting loops ser
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See Residential Mandatory Measures Summary A heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. ers and heat pump systems must be equipped with liquid line filter driers if required, as specified by the ed hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have lation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. titing System Tipping, and Space Conditioning System Line Insulation. Mtomesic hot water piping and Space Conditioning System Line Insulation and momesic hot water piping and Space Conditioning System Line Insulation. At Momesic hot water piping and Space Conditioning System Line Insulation and Momesic hot water piping and Space Conditioning System Line Insulation. At Momesic hot water piping and Space Conditioning System Line Insulation. At Momesic hot water piping and Space Conditioning System Line Insulation. Two water and the stants in 10ch; all hot water piping with a sterier less than 3/4 omesic hot water recirculation system, from the heating source to storage tank or between tanks, buried below ree to kitchen fixtures.* Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), ripin gan drigherant suction piping located outside the conditioned space must include, or be protected by, a r. Pipe insulation buried below grade must be installed in a waterproof and non-cushable casing or sleave. Systems systems suing gas or propane water heaters to serve individual dwelling units must include all of dit, 20 ang heetical receptical tarts optical to the electrical panel task. I advise the water heater without obstruction. Both ends of the unused conductor must be labeled with the isolated. Have a reserve singing located to the electrical panel task. Solar water-heating systems and collectors must be estimated and task to thub the isolated. Have a reserve singing and Mechanical Officials
Pre Easide of the california plurits must have a clearance of at least 5 feet from the outlet of any dryer vent. rs and heat pump systems must be equipped with liquid line filter driers if required, as specified by the dhot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have ation or R-16 internal insulation where the internal insulation. R-value is indicated on the exterior of the tank. ing System Figure, and Space Conditioning System Line Insulation. All domestic hot water pring must on 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum ror a minimum insulation system. <i>System Line</i> Insulation. All domestic hot water pring must on greater than 3/4 inch and less than 1 inc, all hot water pipes from the storage tank; all hot water use to kitchen fixtures. [*] sulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and 3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), piping and refrigerant sucton piping located outside the conditioned space must include, or be protected by, a .* Pre insulation buried below grade must be installed in a waterproof and non-crusthable casing or sileeve. Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of It, 20 amp electrical receptace that is connected to the electric panel adjacent to the circuit breaker with the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe between the tays and the contractor must certify to the customer in writing, that the insulation meets this requirement. ting system relater withing and Mechanical Officials, Research and Teesting (IAPMO R&T), or by a listing security multiging duct must comply with California Mechanical Code (CMC) Section 604.0. If a the contractor must c
et Residential Mandatory Measures Summary et al pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. s and heat pump systems must be equipped with liquid line filter driers if required, as specified by the Indivater tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have into or R-16 internal insulation Avaule where the internal insulation R-vaule is indicated on the exterior of the tank. Ing System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must n 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum or a minimum insulation R-vaule of 7.7: the first Foet of cold water piping with a nominal diameter less than 3/4 estic hot water recirculation system, from the heating source to storage tank, all hot water all to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 estic hot water recirculation system, from the heating source to storage tank is buried below to k lichen fixtures.* Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of 1,20 ang electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 3 feet from the water heater whold obstruction. Both ends of the unused conductor must be labeled with the olated. Have a reserved single pole circuit breaker space in the electrica panel adjacent to the circuit breaker where the water heater whold obstruction. Both ends of the unused conductor must be labeled with the olated. Have a reserved single pole circuit breaker space buries that requirements of \$ 110.3(c)5. Ioiar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification onal Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing secolors. Isisting space-condilioning duct must comply with Cali
Residential Mandatory Measures Summary at pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. and heat pump systems must be equipped with liquid line filter driers if required, as specified by the oto water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have on or R-16 internal insulation Markue of 7.17: the first 5 feet of cold water piping conditions must have a minimum a minimum insulation R-watue of 7.17: the first 5 feet of cold water piping systems, the aventior of the tank. System Piping, and Space Conditioning System Line Insulation . All domestic hot water piping must 600.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum a minimum insulation R-watue of 7.17: the first 5 feet of cold water piping with a nominal diameter less than 3/4 is to have are recirculation system, from the heating source to storage tank and how water b to kitchen fixtures." attion must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and b), insulation exposed to water must be water retardant and protected from UV light (no adheskve tapes), ing and erfigerant suction piping located outside the conditioned space must include, or be protected by, a fig- insulation burde blow grade must be installed in a waterproof and non-crushable casing or steve. returnes. Systems using gas or propane water heaters to serve individual dwelling units must include all of 20 amp electrical receptacle that is connected to the electrica panel water and accore to the bale water water the water heater without obstruction. Both ends of the unused conductor must be labeled with the atad. Have a reserve 340 (J a Codegory III or IV ent, or a Type ber with water that the advelling units must meet the requirements of § 110.3(c)f. ar water-heating systems and collectors must be coeffied and rated by the Solar Rating and Certification al Association of Plumbing and Mech
Experimental experiments of the experiment of the experiment. The experiment of t
Se Residential Mandatory Measures Summay I heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. ers and heat pump systems must be equipped with liquid line filter drins if required, as specified by the ed hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have ladion or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. Intrig System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must for 60.91.10 fire California Pluming Code. In addition, the following ingo and linos must have a minimum th or a minimum insulation R-value of 7.7; the first 5 feet of cold water pipes from the storage tank; all hot water gougal to or greater than 3/4 inch and less than 1 inch, all hot water piping with a nominal diameter less than 3/4 messic hot water recirculation system, from the heating source to storage tank or between tanks, buried below rea to kitchen futures. 7. Pipe insulation buried below grade must be installed in a waterproof and non-custable casing or sleves. 9. Systems. Systems using gas or propare water heaters to serve individual dwelling units must include all of ol, 20 amp electrical receptacle that is connected to the edictric panel with a 120/240 volt 3 conductor. 10. Signa and efficiencial encound to the storage tank or bays the tabeled with the storade theater is starter without buring assistance; and gas supply line vitth a capacity of at least 200,000 Btu per hour. 11. Signa systems and collectors must be certified and rated by the Solar Rating and Certification storade tanks and plenums must meet the requirements of 110.3(5). 12. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification storade to wather water water water water the requirements of 14.10 km cust are entry in through field vefification storader sthe and lease of a supply with a capacity of
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Pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent. The heat pump systems must be equipped with liquid line filter drivers if required, as specified by the twater tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have to re-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. System Piping, and Space Conditioning System Line Insulation. All donesits that water piping must primum insulation R-value of 7.1 the first 5 feet of odd water piping with a nominal diameter less than 3/4 is to the adifformia Pumping Code. In addition, the following piping conditions must have a minimum innimum insulation R-value of 7.1 the first 5 feet of odd water piping with a nominal diameter less than 3/4 is to the adifform of the adifforming System that and protected from the storage tank; all hot water piping with a nominal diameter less than 3/4 is to the adifform of the adifforming that due to surgiff, mosture, equipment maintenance, and Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes), g and refigerant suction piping located outside the conditioned space must include, or be protected by, as is insulation barboxed to leave any and waterport of an on-crustable casing or slower. Intern. Systems using gas or propane water heaters to serve influvidual dwelling units must include all of a meriod share heater without obstruction. Both ends of the unused conductor must be labeled with the end theva cressread single pole circul breaker gasce in the decidical panel dargant to the circul breaker the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe between the ere water heater is installed, a condense to all enables the papel dargant to the circul breaker the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe between the ere water heater is installed, and refifter and r
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MINIMUM NAILING SCHEDULE (U.N.O.):	FASTEN		
CONNECTION NAILING ' I. JOIST TO FOUNDATION SILL, FLOOR GIRDER OR WALL TOP PLATE, TOENAIL 3-8d COMMON 2. BRIDGING TO JOIST, TOENAIL EACH END 2-8d COMMON 2. WING IN TO SUPER TO SUPER THE FLORE FL	I. ALL FASTENERS SUPPLIED TO DOES NOT CONSTITUTE AN AF		
3. 1"X6" SUB FLOOR OR LESS TO EACH JOIST, FACE NAIL 2-8d COMMON 4. WIDER THAN 1"X6" SUB FLOOR TO EACH JOIST, FACE NAIL 3-8d COMMON 5. 2" SUB FLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL 2-16d COMMON 6. SOLE PLATE TO JOIST OR BLOCKING TYPICAL FACE NAIL 16d AT 16" OC	2. PROVIDE AN INTERNATIONAL 3. SUBSTITUTIONS FOR SPECIFIC		
6. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS 100 C.O. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS 3-16d PER 16" 7. TOP PLATE TO STUD, END NAIL 2-16d COMMON 8. STUD TO SOLE PLATE 4-8d COMMON TOENAIL OR 2-16d COMMON END NAIL	COMPLIANT WITH NOTES I & 2 WRITTEN FORM IDENTIFYING T INTERNATIONAL CODE COUNC		
9. DOUBLE STUDS, FACE NAIL I6d AT 24" O.C. 10. DOUBLE TOP PLATES, TYPICAL FACE NAIL I6d AT 16" O.C. DOUBLE TOP PLATES, LAP SPLICE 8-16d COMMON	SEE GENERAL NOTES FOR AD 4. FASTENERS SHOWN TO PROJE		
II. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL 3-8d COMMON I2. RIM JOIST TO TOP PLATE, TOENAIL 8d AT 6" O.C. I3. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 2-16d COMMON	THREADS. 5. THE CONTRACTOR SHALL BE		
14. CONTINUOUS HEADER, TWO PIECES 16d COMMON AT 16" O.C. ALONG EACH EDGE 15. CEILING JOISTS TO PLATE, TOENAIL 3-8d COMMON 16. CONTINUOUS HEADER TO STUD, TOENAIL 4-8d COMMON	A. FLAT HEAD FASTENE B. WAFFER HEAD FASTI OTHER MATERIAL TH.		
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL3-I6d COMMON18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL3-I6d COMMON19. RAFTER TO PLATE, TOENAIL3-8d COMMON	C. HEX WASHER HEAD F D. THREAD PITCH SHALL REQUIRE COARSER T		
20.1" DIAGONAL BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d COMMON 21. 1"X8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d COMMON 22. WIDER THAN 1"X8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d COMMON 25. WIDER THAN 1"X8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d COMMON	E. THE FASTENER SHALL F. SELECT THE PROPER CONNECTED.		
23. BUILT-UP CORNER STUDS 24. BUILT-UP GIRDER AND BEAMS, FACE NAIL 25. CONTROL AT EACH SPLICE 26. CONTROL AT EACH SPLICE 27. CONTROL AT EACH SPLICE	6. ALL SCREWS SHALL BE MANU UNLESS PROVIDING AN EQUIV.		
25.2" PLANKS 26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD: ² SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING): ² 1/2" AND LESS 6d.312	7. FRAMING SCREWS SHALL BE		
$ \begin{array}{c} 1/2 - 1/12 \\ 1/32" - 3/4" \\ 7/8" - 1" \\ 1/8" - 1 /4" \\ \end{array} $	U. FETRIOUD SCREMS SHALL DE		
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING): ² 3/4" AND LESS			
7/8" - 1" 8d⁵ 1 1/8" - 1 1/4" 10d⁴ OR 8d⁵ 27. PANEL SIDING (TO FRAMING): 10d⁴ OR 8d⁵	I. FAB., ERECTION AND MATERI, STRUCTURAL STEEL FOR BUIL		
1/2" OR LESS 6d ⁶ 5/8" 8d ⁶ 28. FIBERBOARD SHEATHING: ¹ 8d ⁶	2. STRUCTURAL STEEL SHALL CO A) ASTM A992 GRADE 50 (1 B) ASTM A36 (Fu=36ksl) MI		
NO. II ga.⁰ 6d⁴ NO. I6 ga. STAPLEª	3. PIPE COLUMNS SHALL CONFO		
NO. II ga.º 8dª NO. 16 ga. STAPLEª	4. TUBE COLUMNS SHALL CONFO		
29. INTERIOR PANELING 1/4" 3/8" 6d"	6. PLACE NON-SHRINK GROUT UN		
 COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, I2 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD 	7. ALL STRUCT. STEEL SHALL BE IN PLACE UNTIL OTHER MEANS		
DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.	8. HOLES FOR BOLTS SHALL BE		
5. COMMON OR DEFORMED SHANK 4. COMMON 5. DEFORMED SHANK	9. USE STANDARD AISC GAGE A		
 CORROSION-RESISTANT SIDING OR CASING NAIL. FASTENERS SPACED AT 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR 	II. ALL BOLTED CONNECTIONS S SHOWN OTHERWISE. NUTS FOR		
NONSTRUCTURAL APPLICATIONS. 8. CORROSION-RESISTANT ROOFING NAILS WITH 1/16 INCH-DIAMETER HEAD AND I 1/2 INCH LENGTH FOR 1/2 INCH SHEATHING AND I 3/4 INCH LENGTH FOR 25/32 INCH SHEATHING.	12. FOR ALL HIGH STRENGTH BOL TORGUING AS REQUIRED.		
9. CORROSION-RESISTANT STAPLES WITH NOMINAL 1/16 INCH CROWN & I 1/8 INCH LENGTH FOR 1/2 INCH SHEATHING AND I 1/2 INCH LENGTH FOR 25/32 INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STERENGTH AXIS IN THE LONG DIRECTION OF THE PANEL UNITESS OTHERWISE MARKED)	13. "SLIP CRITICAL" BOLTED CON A) "SLIP CRITICAL" CONNEC LONGITUDINAL AND TRA		
 IO. CASING OR FINISH NAILS SPACED AT 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS. II. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED AT 6 INCHES ON PANEL EDGES, 12 INCHES AT 	B) THE SPECIAL INSPECTOR CRITICAL" CONNECTION		
INTERMEDIATE SUPPORTS 12. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 $\frac{1}{2}$ "x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.	14. WHERE MINIMUM AISC FILLET PROVIDE MINIMUM AISC WELD		
STRUCTURAL NAILS	ATSM A992 GRADE 50 ASTM A500, GRADE B		
NAIL SIZESHANK DIA.HEAD DIA.LENGTH8d COMMON.131 IN281 IN.2 1/2 IN.	16. ALL BEAMS AND GIRDERS SH		
10d COMMON .148 IN312 IN. 3 IN.	DETAILS PROPOSED BY THE THE STRUCT. CALCS FOR SUC SUBMITTED FOR ENGINEER'S		
20d COMMON .192 IN406 IN. 4 IN.	IB. THE STEEL FABRICATION SHA		
CONCRETE GRADE BEAM	DE		
REINFORCEMENT LAP	I. GUARD RA		
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TENER (SCREW) REQUIREMENTS:			ŀ	NOOD NO	TES:
LIED TO THE PROJECT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO USE. THIS REVIEW E AN APPROVAL. IT IS PROVIDED FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. TIONAL CODE COUNCIL (ICC) EVALUATION REPORT FOR ALL TYPES AND BRANDS OF FASTENERS USED.	Ι.	ALL STRUCTURAL GRADING RULES # CALIFORNIA REDU STRUCTURAL GLUE GLUED-LAMINATED	WOOD SHALL CONFORM I 17 DF #I, EXCEPT 2X4 ANI 100D ASSOCIATION GRAI 10 LAMINATED TIMBER AI 2 MEMBERS. PLYWOOD -	WITH THE FOLLOWING SPECIF D 2X6 WALL STUDS, PLATES, DING RULES, LATEST EDITION TC IIT LATEST EDITION. SUBI U.S. PRODUCT STANDARD PS	ICATION: DOU AND BLOCKI I. GLVED LAMI MIT SHOP DR 51-09 FOR SC
PECIFIC PASTENERS IDENTIFIED WITHIN THESE PLANS MAT BE MADE PROVIDED THAT THE SUBSTITUTION IS ES I & 2, AND FOUND TO BE ACCEPTABLE BY ENGINEER OF RECORD. EACH REQUEST SHALL BE IN FYING THE ITEM BEING SUBSTITUTED FOR, THE SUBSTITUTION ITEM WITH BRAND NAME, PART NUMBER, AND COUNCIL (ICC) REPORT. THE AFFECTED PLANS, DETAILS, AND SECTIONS SHALL ALSO BE IDENTIFIED. FOR ADDITIONAL SUBSTITUTION REQUIREMENTS.	2. 3. 4.	FLOORS AND ROC ALL WOOD IN DIRI BEARING & SHEAR SPLICE UPPER & L PROVIDE SOLID B	DF - U.N.O. PRESSURE TRE ECT CONTACT WITH EART R WALLS SHALL HAVE DO OWER PLATES AS IN DET BLCK'G. BTWN. JOISTS & R	ATED DOUGLAS FIR - 2019 C H, CONCRETE, OR MASONRY UBLE TOP PLATES, LAPPED C FAIL I ON TYP. DETAIL SHEET PAFTERS AT ALL SUPPORTS.	CBC STANDAR SHALL BE PR @ WALL & PA
ALL BE RESPONSIBLE FOR SELECTING THE PROPER FASTENER FEATURES UNLESS NOTED: ASTENERS SHALL BE USED AT PLYWOOD CONNECTIONS. D FASTENERS SHALL BE USED AT FRAMING CONNECTIONS COVERED WITH PLYWOOD, GYP BOARD OR RIAL THAT MAY BE IMPEDED BY THE PROJECTION OF THE FASTENER HEAD. HEAD FASTENERS SHALL BE USED AT ALL OTHER CONDITIONS.	5. 6. 7.	PROVIDE BLOCKIN JOISTS UNDER ANI HOLES FOR BOLTS	NG AT ALL CEILING LEVEL D PARALLEL TO PARTITIC 5 IN WOOD SHALL BE BOR	LS. DNS SHALL BE DOUBLED AND RED WITH A BIT OF THE SAM	P NAILED TOG E NOMINAL DI
H SHALL BE COMPATIBLE WITH THE THICKNESS OF THE PARTS BEING CONNECTED. THINNER GAUGE PARTS RESER THREADS COMPARED TO THICKER GAUGE PARTS. R SHALL BE OF SUFFICIENT LENGTH IN ORDER TO COMPLY WITH NOTE 4 ABOVE. PROPER PROPRIETARY SELF-DRILLING TIP TYPE THAT IS CAPABLE OF TAPPING THE MATERIALS BEING	<i>9</i> .	HOLES FOR LAG S LARGER THAN THE LAG SCREWS & WO SCREWS,	CREMS SHALL BE FIRST E ROOT OF THE THREAD. OOD SCREWS SHALL BE S	GORED TO THE SAME DIAME GCREWED & NOT DRIVEN INTO	O PLACE. SC
BE MANUFACTURED BY EITHER GRABBER CONSTRUCTION PRODUCTS OR BY ITW BUILDEX (TEKS BRAND) N EQUIVALENT SUBSTITUTION IN ACCORDANCE WITH NOTE 3 ABOVE. ALL BE #8 x5/8" (16 MM) WAFER HEAD SELF-DRILLING UNO.	10.	ALL BOLTS & LAG ALSO TO INSERTE BOLT DIAM. 1/2"	5 SCREWS SHALL BE PRO D EXPANDING FASTENERS <u>MI WASHER</u> 2" dia x 1/4"	VIDED w/ METAL WASHERS U 5, RED HEAD, ETC. STEEL WASHER 2"x2"x 3/I6"	NDER HEADS
ALL BE A MINIMUM #8x1" (25 MM) FLAT HEAD WITH A MINIMUM HEAD DIAMETER OF .292" (7.4 MM).		5/8" 3/4" !"	3" dia x 1/4" 3 1/2" dia x 5/16" 4" dia x 5/16"	3"x3"x 1/4" 3 1/2"x3 1/2"x 1/4" 3 1/2"x3 1/2"x 1/4"	-
MATERIALS SHALL CONFORM W/THE ALSC. 360-10 SPEC. FOR THE DESIGN FAB. AND ERECTION OF	//.	ALL BOLTS AND L COMPLETION OF J	AG SCREWS SHALL BE TI IOB.	GHTENED ON INSTALLATION	AND RETIGHT.
OR BUILDING AND CBC, 2019 EDITION. HALL CONFORM TO THE FOLLOWING: DE 50 (Fu=50ksl) WE BMS # COLS	12. 13.	LAY ALL STRUCTU OTHERWISE. BLOCK SP JOINTS	RAL PLYWOOD ON ROOF	AND FLOORS WITH FACE GR	RAIN PERPENT OR FLOOR FR
CONFORM TO ASTM A53 GRADE B. TYPE F. OR S. (Eu=35ks)).	10.	AS STUDS AT WAL	LS UNLESS NOTED OTHER	WISE IN SHEARWALL SCHEDU	ILE. <u>USE PLY</u>
CONFORM TO ASTM A500 GRADE B (Fy = 46 KSI).	14. 15.	CONNECTOR HARD ACCEPTANCE MAT NOTIFY STRUCTUR	WARE MODEL NUMBER AI Y BE SUBSTITUTED. ALL F AL ENGINEER AFTER WAL.	RE THOSE FOR SIMPSON STR HARDWARE SHALL BE INSTAL L, FLOOR, AND ROOF SP NAI	'ONG-TIE COM LED PER MA 'LING HAS BEI
ONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE W/"AWS" STANDARDS, USING ONLY CERTIFIED NELDS SHALL HAVE COMPLETE PENETRATION. ALL EXPOSED BUTT WELDS SHALL BE GROUND. ROUT UNDER ALL BEARINGS ON CONCRETE OR MASONRY BEFORE ADDING VERTICAL LOAD.	16.	HOURS PRIOR TO C	CONCEALING SP. CHING OF EXTERIOR WALL	LS AND BEARING PARTITION	6 SHALL NOT
HALL BE ERECTED PLUMB AND TRUE TO LINE. TEMP. BRACING SHALL BE INSTALLED AND SHALL BE LEFT R MEANS ARE PROVIDEED TO ADEQUATELY BRACE THE STRUCTURE.	17. 18.	CUTTING AND NOTO SHALL NOT EXCEE A BORED HOLE NO	CHING OF NON-BEARING F ED 40% OF THE STUD WID OT GREATER THAN 40 PE	PARTITIONS SUPPORTING NO . TH. RCENT OF THE STUD WIDTH I	LOADS OTHER 1AY BE BORE
YALL BE OF THE SAME NOMINAL DIAM AS THE BOLT PLUS 1/16". GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.	19.	BORED HOLES NO AND IN ANY WALL SO BORED.	T GREATER THAN 60 PER WHERE EACH BORED STU	CENT OF THE WIDTH OF THE ID IS DOUBLED, PROVIDED N	STUD ARE PE IOT MORE THE
TEEL EMBEDDED IN CONCRETE W/6x6-WI.4xWI.4 WWF. DO NOT PAINT EMBED AREAS. TIONS SHALL HAVE A MINIMUM OF TWO HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 UNLESS ITS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX, GRADE C, CONFORMING TO ATSM A563.	20.	WHERE FRAMING H HANGERS SHALL E	IANGERS ARE REQUIRED , BE USED. SLOPE, SKEW, TU MBERS	AND ARE NOT SHOWN ON SEC IRN IN FLANGES AND PROVID	CTIONS, DETA DE TOP FLANC
STH BOLTS, HARDENED WASHERS SHALL BE PROVIDED UNDER THE TURNING ELEMENT OF BOLT FOR ED.		4X MEMBERS 6X MEMBERS 1-JOIST MEME	6	GERS ANGERS ANGERS	
ED CONNECTIONS: CONNECTIONS (A325 SC DESIGN VALUES W/SPECIAL INSPECTION) ARE REQUIRED AT ALL MAIN ND TRANSVERSE BRACED FRAME LINES AND ALL BOLTS IN OVERSIZED OR SLOTTED HOLES. PECTOR MUST BE PRESENT DURING THE ENTIRE INSTALLATION AND TIGHTENING OPERATION OF "SLIP IECTIONS.	21. F 22.	GLU LAM MEN PROVIDE PLYWOO PLYWOOD EDGES. UPSET THREADS (MBERS LEG F D EDGE NAILING AROUND ON SILL BOLTS ARE NOT ,	HANGERS ⁹ ALL OPENINGS AND BLOCK ALLOWED.	ALL UNSUPPC
FILLET WELD THICKNESS REQUIREMENTS EXCEED WELDS SHOWN ON DETAIL, OR IF NO SIZE IS SHOWN, IC WELD ON STEEL FOR THE FOLLOWING GRADES WILL BE REQUIRED PRIOR TO ERECTION / INSPECTION: O 3	23. , , (1	ALL FRAMING LUM INSTALLATION AND INSPECTOR OF REC OTHER SURROUNDIN MEASURES NECESS	IBER SHALL HAVE A MAX SHALL BE AT 19% MAXIN CORD) BEFORE BEING ENO NG ARCHITECTURAL MATE ARY TO PROVIDE LUMBEI	IMUM MOISTURE CONTENT OF IUM MOISTURE CONTENT (VER CLOSED BY INSULATION, GYP RIALS. THE CONTRACTOR SH R MEETING THESE CRITERIA.	I9% AT THE RIFIED BY BOARD, OR IALL TAKE AL
DERS SHALL BE CAMBERED AS INDICATED ON STRUCTURAL DRAWINGS. MBERS WHERE NOT DETAILED ON THE DWGS IS PROHIBITED WO PRIOR APPROVAL . ALT. CONNECTION BY THE FABRICATOR SHALL BE SUBJECT TO ENGINEER'S APPROVAL. IF ALT. CONNEC. ARE APPROVED, OR SUCH CONNECTIONS SHALL BE PREPARED BY A REG. PROF. ENG. IN THE STATE OF CALIF. AND WEER'S APPROVAL PRIOR TO PROCEEDING WANY FABRICATION WORK.	24. 1 25. 26. 1	BOLTS ARE NOT TO ALL METAL ANCHO HOT DIPPED GALV MINIMUM WIDTH OF	O BE INSTALLED IN LUMBL ORS, FASTENERS, CONNEC (ANIZED OR OTHER APPR FLOOR AND ROOF SHEA $TIPO \Lambda I$	ER OVER 19% MOISTURE CON TORS, ETC. THAT WILL BE IN POVED CORROSION APPROVI THING PANELS SHALL BE 24'	TENT. <i>CO</i> NTACT WI ED MATERIAL ' PER 2015 SL
ON SHALL BE CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM.	/.	GLUED-LAMINATEL	D BEAMS SHALL BE MANU	FACTURED FROM VISUALLY	GRADED WES
DEFERRED APPROVAL		THE FOLLOWING CO SIMPLE SPAN CANTILEVER	OMBINATIONS: MEMBERS: 24F-V4 \$ CONTINUOUS MEMBERS:	24F-V8	
YARD RAILS, HANDRAILS, AND GUARDRAIL POSTS SHALL BE SUBMITTED AS DEFFERRED APPROVAL EMS AS DEFINED BY CBC 107.3.4.1. THE DEFERRED SUBMITTAL WILL INCLUDE BUT NOT BE LIMITED TO YARDRAIL, HANDRAIL, GUARDRAIL POSTS AND POST ANCHORAGE DETAILS. TWO COPIES OF EACH EFERRED SUBMITTAL WILL FIRST BE SUBMITTED TO THE ARCHTITECT/ENGINEER OF RECORD, WHO WILL EVIEW THEM AND FORWARD THEM TO THE CONTRACTOR WITH NOTATIONS INDICATING THAT THE BMITTALS CONFORM TO THE DESIGN OF THE BUILDING.	2.	VERSALAM BEAMS FOLLOWING DESIG E = 2,000,00 Fb = 3100 PS Fc = 3000 PS Fc = 3000 PS	6 SHALL BE EXTERIOR GF N STRESSES: DO PSI I I SI	RADE, MANUFACTURED FROM	WESTERN SPI
SHOP DRAWINGS	З.	MICROLAM BEAMS FOLLOWING DESIG	5 SHALL BE EXTERIOR GR N STRESSES:	ADE, MANUFACTURED FROM	WESTERN SPL
ACTOR SHALL SUBMIT SHOP DRAWINGS SHOP DRAWING PRODUCT DATA SAMPLES-PRIOR TO CATION. THE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW: TAILS ON THE SHOP DRAWINGS THAT DEVIATE FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY		Fb = 2600 PS Fc = 750 PS Fc = 2510 PS) (61 I (PERPENDICULAR) ⊥ 61 (PARALLEL) II		
ARKED WITH THE NOTE "THIS IS A NOTED CHANGE". CAD FILES OF APPROVED STRUCTURAL DRAWINGS WILL NOT BE PROVIDED TO THE CONTRACTOR FOR EIR PREPARATION OF SHOP DRAWINGS.THE CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS	4.	Fv = 285 PSI CAMBER ALL BEA OTHERWISE	MS ON 2000 FT. RADIUS	BETWEEN SUPPORTS (NO CA	MBER AT CAI
RE NOT CHANGE ORDERS. DNTRACTOR FULLY AGREES THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS IS TO DEMONSTRATE AT THE CONTRACTOR FULLY UNDERSTANDS THE DESIGN INTENT OF THE PROJECT AND COMPLIANCE WITH F INFORMATION GIVEN IN THE CONTRACT DOCUMENTS BY INDICATING WHICH MATERIAL THE CONTRACTOR	5. 6.	EACH STRUCTURAL	L COMPOSITE LUMBER BE. L COMPOSITE LUMBER BE.	AM SHALL BE STAMPED WITH AM SHALL BE FABRICATED .	H THE AITC QU
TENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE INTRACTOR INTENDS TO USE. INTRACTORS ARE RESPONSIBLE FOR ALL MATERIAL QUANTITIES ON THE SHOP DRAWINGS.	7.	FOR EXTERIOR US STRUCTURAL COM AITC IIT LATEST E	E. POSITE LUMBER SHALL CO EDITION. SUBMIT SHOP DR.	ONFORM TO STANDARD SPEC AWINGS TO FIELD INSPECTOR	CIFICATION F R PRIOR TO F
SPECIAL INSPECTIONS:			CO	NCRETE I	NOTE
THE INSPECTION ITEMS REQUIRED BY CHAPTER 17 OF THE 2019 CBC, SPECIAL SHALL BE PERFORMED ON THE FOLLOWING ITEMS:	І. 2.	STRUCTURAL CONC CONCRETE MIX DE	CRETE SHALL ATTAIN 28 ESIGN SHALL BE PREPARI INCRETE MIX PROPORTIO	DAY COMPRESSIVE STRENG ED BY AN INDEPENDENT LAE NG SHALL BE PER CBC SECT	TH, f'c = 3,0C BORATORY AF TION 1905 3 0
N OF SUBGRADE PREPARATION AND FOUNDATION CONSTRUCTION OPERATIONS BY INICAL ENGINEER PER CBC 1705.6 EINFORCING CBC 1705.3, TABLE 1705.3	3. 4	CEMENT SHALL CC	DNFORM TO ASTM C-150 EGATES SHALL CONFORM	TYPE I OR II. TYPE I OR II.	TES FOR LIGH
STEEL CONSTRUCTION - HIGH STRENGTH BOLTING A325- OR A325-X AT BEAM 3 PER CBC 1705.2 STEEL WELDING PER CBC 1705 2	5.	C-330. REINFORCING STE	EL SHALL CONFORM TO A	ASTM A6I5 - GRADE 40. REI	NFORCING ST
STELL WELDING FER CDC FIOS.2 STANCE PER CBC 1705.12 WHERE Sds EXCEEDS 0.5g N OF ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM ALONG LINES WHERE THE NAILING IS 4" OC. OR CLOSER ELEMENTS OF THE SPECIAL INSPECTION SHALL	6.	ASIM A 106. ALL PREHEATING SHALL BE CONTINU	& WELDING OF REINFORC VOUSLY INSPECTED BY A	ING BARS SHALL BE DONE I QUALIFIED LABORATORY. C	N ACCORDAN ONTRACTOR
ING, BOLTING, ANCHORING, AND OTHER FASTENING WITHIN THE SEISMIC FORCE STEM, INCLUDING WOOD SHEARWALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES,	7.	REINFORCING STEL CONSTRUCTION."	EL SHALL BE FABRICATE.	D ACCORDING TO "MANUAL (OF STANDARI
LS, AND HOLDOWNS PER SECTION TIOS.II.I	8. 9. 10.	WIRE FABRIC SHA DIMENSIONS SHOW CONCRETE COVER EXPOSED TO GRC SPLICES IN CONTIL THAN 5'-O" APPAR BOTTOM BARS AT	LL CONFORM TO ASTM A IN FOR LOCATION OF REI RAGE SHALL BE AS FOLLO WOUS REINFORCEMENT SH T. SPLICE CONTINUOUS E CENTERLINE AT SUPPOR	-185. NFORCING ARE TO THE FACE OWS: CONCRETE DEPOSITEL MS - 2". SLABS (ON GROUND HALL BE 48 BAR DIAMETERS BARS IN SPANDRELS, GRADE T UNI ESS NOTED OTHERWISE	E OF MAIN BA > AGAINST GR >) - 2" CLEAR 5 & SPLICES I BEAMS, ETC., 5 SPLICES IN
	//.	CONSTRUCTION JC ROUGHENED BY CH	DINTS SHALL BE MADE RC HIPPING THE ENTIRE SURF,	DUGH AND ALL LAITANCE REN ACE, SAND BLASTING OR RA	10VED FROM KING THE SUR
	12. 13.	DEFORMATION REMOVE ALL DEB REINFORCING, DOI POSITION BEFORE	RIS FROM FORMS BEFOR NELS, BOLTS, ANCHORS, S PLACING CONCRETE.	E CASTING ANY CONCRETE. SLEEVES, ETC., TO BE EMBED.	DED IN CONC.
	14. 15. 16.	MAXIMUM FREE FA NO WOOD SPREAD CONSOLIDATE CON RODDING OR TAM RECOMMENDED PR ALL SAW CUTTING	ALL OF CONCRETE SHALL DERS ALLOWED. NO WOO NCRETE PLACED IN FORM PING. USE EQUIPMENT AN RACTICES OF ACI 309 TC SHALL BE DONE AFTER	<i>BE 8'-0".</i> D STAKES ALLOWED IN ARE. IS BY MECHANICAL VIBRATII D PROCEDURES FOR CONSO SUIT THE TYPE OF CONCRE INITIAL SET HAS OCCURRED	AS TO BE CO NG EQUIPMENT LIDATION OF TE AND PROJ TO AVOID TE
	18. 19. 20.	DUI DEFORE INITIA DRILL THROUGH S ADDITIONAL REINI CONTRACTOR. PROVIDE 2-#4X4'-	¬L ЭПКIINKAGE HAS OCCU TEEL COLUMNS, BEAMS AI FORCING IN PRECAST OR -O" DIAGONAL REINFORC.	NRLIV. ND PLATES TO PASS CONTIN TILT-UP PANELS REQUIRED I ING AT MID-DEPTH OF SLAB	VOVS REINFOI FOR LIFTING S AT ALL RE-E

5:	ABBRE	VIATIONS:
: DOVGLAS FIR - COAST REGION - WCLIB OCKING MAY BE DF #2. REDWOOD - LAMINATED BEAMS - STANDARD SPEC. FOR P DRAWINGS PRIOR TO FABRICATION OF OR SOFT PLYWOOD STRUCT I @ WALLS; CDX @ NDARD NO. 2303.I-3. BE PRESSURE TREATED. & PARTITION INTERSECTION w/ 3-I6D NAILS. P TOGETHER. AL DIAMETER AS THE BOLT PLUS I/I6". D DEPTH AS THE SHANK AND THE REST NO E. SOAP MAY BE USED TO LUBRICATE THE EADS & NUTS WHICH BEAR ON WOOD. APPLIES	AB ANCHOR BOLT BTWN BETWEEN CJ CONSTRUCTION JOINT CJP COMPLETE JOINT PENETRATION CLR CLEAR CONC CONCRETE CONTIN CONTINUOUS CP COMPLETE PENETRATION CSK COUNTERSINK CTJ CONTROL JOINT DF DOUGLAS FIR DL DEAD LOAD DO DITTO (E) EXISTING EJ EXPANSION JOINT EN FACE OF BLOCK FC FACE OF STUD FS FACE OF STUD FTG FOOTING GA GAUGE GLB HIGH STRENGTH BOLT(A-325) HT HEIGHT JH JOIST HANGER (SIMPSON) LI LIGHT WEIGHT JM LAG SCREW	(N) NEW NT5 NOT TO SCALE OC ON CENTER OH OPPOSITE HAND PC PIECE PJP PARTIAL JOINT PENETRATION PP PARTIAL PENETRATION PTDF PRESSURE TREATED DOUGLAS FIR RDWD REDWOOD SC SHEAR CONNECTOR SDSTS SELF DRILLING, SELF TAPPING SCREW SPEN STRUCTURAL PLYWOOD EDGE NAILING SFFS STRUCTURAL PLYWOOD SHEATHING STFS SELF DRILLING, SELF TAPPING SCREW SPEN STRUCTURAL PLYWOOD EDGE NAILING STRUCTURAL PLYWOOD SHEATHING STFFENER STGGRD STAGGERED T & B TOP & BOTTOM T & G TORGUE & GROOVE TN TOE NAIL TOF OF FRAMING TOS TOP OF FRAMING TOS MOOD SCREW W/ WITH Wo WILESS NOTED OTHERWISE WS WOOD SCREW W/ WITHOUT WP WORK POINT WWF WELDED WIRE FABRIC
TIGHTENED BEFORE CLOSING IN OR AT	MFR MANUFACTURER MIR MANUFACTURER MI MALLEABLE IRON	
RPENDICULAR TO SUPPORT UNLESS NOTED		
RE FRAMING PLANS AND WITH BLOCKING SAME PLY CLIPS AT MIDSPAN OF UNSUPPORTED COMPANY, EQUIVALENT CONNECTORS WITH ICC R MANUFACTURERS SPECIFICATIONS. S BEEN COMPLETED AND A MINIMUM OF 48 NOT EXCEED 25 % OF THE STUD WIDTH DTHER THAN THE WEIGHT OF THE PARTITION BORED IN ANY WOOD STUD. RE PERMITTED IN NON-BEARING PARTITIONS E THEN TWO SUCCESSIVE DOUBLE STUDS ARE DETAILS OR PLANS THE FOLLOWING SIMPSON "LANGE HANGERS AS REQUIRED." SUPPORTED THE TIME OF "OR KE ALL DT WITH PRESSURE TREATED LUMBER MUST BE ERIAL. DIS SDPWS LUMBER NOTES: N SPECIES AND SHALL CONFORM TO THE N SPECIES AND SHALL CONFORM TO THE	 I. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY W. 2. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE G. 3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO 4. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMISTRUCTURAL STEEL, REINFORCING STEEL, OLU- LAMINATED MANUFACTURED JOIST. SHOP DRAWINGS: CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS BY THE CONFORCTOR UNDERSTANDS THE DESIGN CONCEPT BY INC AND BY DETAILING THE FABRICATION AND INSTALLATION 5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATION 6. SHOP DRAWING SUBMITTALS BY THE CONFORMING SHALL BE PREPARED FROM FRESH WORL PERMITTED. 7. CAD FILES OF APPROVED DRAWINGS WILL NOT BE PROVID THE PREPARATION OF SHOP DRAWINGS. 8. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCT CONTRACT BY SHALL NOTIFY THE ARCHITECT AND STRUCT CONTRACT REAMINGS OF DOLUMENTS. CONTRACTOR IS NOT PERMITTED. NOTIFY CONTRACT REAMINGS SINCT PERMITTED NOTIFY CONTRACT DESIGNER IF ADDITIONAL D PURPOSE. REFER TO SCHEDULES AND DETAILS FOR OTHER APPROVED STRUCTURAL DRAWINGS SHALL BE SUBMITTED APPROVED STRUCTURAL APPROVAL PRIOR TO IMPLEMENTED APPROVED STRUCTURAL APPROVAL PRIOR TO IMPLEMENTED INTO THE SCOPE OF WORK. THE OWNER, THROUTED INT HE SCOPE OF WORK THEO WIRE, THROUTED AND FAILLINTY. SLOPE STABLLITY, OR OVERALL STA AND SHALL MAY AND ALL ANALYSIS AND CRITERIA TO CONTRACT DE INCORPORATED INTO THE STRUCTURAL DESIGN FOR ANY CHINCORPORATED INTO THE STRUCTURAL DESIGN. 	AL NOTES: NLESS OTHERWISE SHOWN OR NOTED ON PLANS. OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION. THE 2019 CALIFORNIA CODE, CBC. INTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL O, CONCRETE MIX PROPORTIONS, TJI'S, OPEN WEB TRUSSES, PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THAT ITRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE OCATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL METHODS HE INTENDS TO USE. IS, PROPERTY LINES, ETC. ON THE JOB. K. REPRODUCTIONS OF THE APPROVED DRAWINGS IS NOT IDED TO THE CONTRACTOR, SUBCONTRACTOR OR FABRICATOR FOR IVRAL ENGINEER WHERE A CONFLICT OCURS ON ANY OF THE NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE IDED TO THE CONTRACTOR, SUBCONTRACTOR OR FABRICATOR FOR IVRAL ENGINEER HERE A CONFLICT OCURS ON ANY OF THE NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE IDED WAFFILIATED PARTIES. DRIVERSTONE STRUCTURAL ENGINEER AND INTENSIONS ARE NECESSARY FOR CONSTRUCTION ER DIMENSIONS ARE NECESSARY FOR CONSTRUCTION ER DIMENSIONS NOT SHOWN. CONSULTANTS OF ALL CHANGES TO OR NEESSTONE STRUCTURAL CONSULTANTS IN REPROTORE STRUCTURAL CONSULTANTS IN REPROTORE STRUCTURAL CONSULTANTS NO INTENSIONS ESTRUCTURAL CONSULTANTS IN REPROTORE STRUCTURAL CONSULTANTS NO INTENSIONE STRUCTURAL CONSULTANTS NO INTENSIONS ESTRUCTURAL CONSULTANTS NO INTENSIONE STRUCTURAL CONSULTANTS MAILS INTENSIONE STRUCTURAL CONSULTANTS MAILS INTENSIONE STRUCTURAL CONSULTANTS WHICH IS ABILITY SLOPE STABLLITY, AND SITE STABLLITY RITERIA THAT IS REQUIRED TO BE
	SAFFT	$\neq N \cap T \in S.$
T CANTILEVERS), TYPICAL UNLESS NOTED	I. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY W/TI	THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS"
TC QUALITY CONTROL MARK.	ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AI 2. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPO	ND ALL O.S.H.A. REQUIREMENTS AS THEY APPLY TO THE PROJECT. ONSIBILITY FOR THE CONTRACTORS FAILURE TO COMPLY W/THESE
TERIOR GLUE AND SHALL BE ASSUMED TO BE	REQUIREMENTS. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATI	E DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING
ON FOR STRUCTURAL GLUE-LAMINATED TIMBER TO FABRICATION.	REQUIRED, AND ANY OTHER TEMPORARY SUPPORT WHICH I	WILL BE NEEDED FOR THE SAFE COMPLETION OF THE PROJECT.
==~	DESIGI	N LOADS:
1 Image: Contract of the structure of the str	2019 CALIFORNIA BUILDING CODE (CBC) LIVE LOADS FLOOR - 40 PSF (REDUCIBLE) TYP, EXTERIOR DECK - 60 ROOF - 20 PSF (REDUCIBLE) DEAD LOADS BITCHED ROOF - 23.8 PSF (2 PIECE CLAY BARREL TILE) FLAT ROOF - 11.8 PSP (DECK INCLUDING PEDESTAL SYSTEM - 30 PSF <u>WIND</u> EXP. B, Iw = 1.0 ENCLOSED BLDG BASIC WIND SPEED = 110 MPH ROOF ANGLE VARIES - USE SIMPLIFIED ANALYSIS <u>SEISMIC - 2019 CBC (ASCE T-16)</u> OCCUPANCY CATEGORY 11 Fa = 1.2 Is = 1.0 FV = 1.4 SITE CLASS = C Ss = 2.559g (USGS Hazmap) Sds - 2.047g SI = 0.880g (USGS Hazmaps) SdI - 0.821g EQUIVALENT LATERAL FORCE SYSTEM Cs - 0.3150 Vbase = 57.0k	ngm) SDC - E
E SUKFACE IU MKUDUCE I/4" DEEP	= _ + _ = _ =	
CONCRETE SHALL BE TIED SECURELY IN	FOUNDA7	ION NOTES:
BE CONCRETED. PMENT SUPPLEMENTED BY HAND-SPADING, N OF CONCRETE IN ACCORDANCE WITH THE PROJECT CONDITIONS. ID TEARING OR DAMAGE BY THE SAW BLADE, SINFORCING. TING STRESSES SHALL BE SUPPLIED BY THE RE-ENTRANT CORNERS TYPICAL.	 REFER TO GEOTECHNICAL REPORT #21019C-0IRI BY C2 EA DATA NOT INCLUDED HERE. ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANG ACCORDING TO STEPPED FOOTING DETAIL 9. ALL PILE CAPS, GRADE BEAMS, TIE BEAMS & OTHER FOO BE FORMED UNLESS SPECIFICALLY APPROVED BY THE ST DESIGNER. FOUNDATIONS MAY BE CAST IN NEAT EXCAVA PROVIDED WRITTEN APPROVAL IS OBTAINED AND FOOTINN INCREASED 2" IN WIDTH. USE 2XI2 PLANK AT EDGE OF EX TO PROTECT AGAINST SLUFFING, AS REQUIRED. CONTRACTOR SHALL NOTIFY CORNERSTONE STRUCTURAL CONCRETE POUR TO ALLOW STRUCTURAL ENGINEER TIME T EXCAVATIONS, AND CONFIGURATIONS 	ARTH, INC. DATED 28 APRIL 2021 FOR FTG, SLAB, WALLS, AND SITE WITH THE REQUIREMENTS OF THE 2019 CBC. SEES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE TINGS SHALL RUCTURAL TIONS ISS ARE KCAVATION CONSULTANTS 24 HRS IN ADVANCE OF ANY TO VISIT SITE AND VERIFY REBAR, FOOTING,

GE	NĒ	RA		NOTE:	
SPECIFIC SHEETS DETAI	, DET, SHAL LS AN	AILS AN L PREV ND NOTE	ND N 'AIL ES C	OTES ON OTHER OVER TYPICAL N THIS SHEET	
)R JCT GROVE B	NE URAI LVD., SUITE 6,	ELK G	STON ONSULTAN ROVE, CA 95624 T: 916-638-084	
CORNERSTONE PROJECT. AN DETAILS W CONSULTANT: MAY	THESE STRUCTUR Y REPROD ITHOUT WR 5 IS A VIO BE SUBJEC	PLANS ARE TI RAL CONSULTA VICTION OR USI ITTEN CONSEN LATION OF CO CT TO PROSEC	HE PRO NTS FO E OF TH T OF CC PYRIGH UTION II	PERTY OF R THE EXPRESS USE ON THIS IIS DRAWING OR ANY OF ITS RRERSTONE STRUCTURAL IT LAW AND THE VIOLATOR N A COURT OF LAW.	
roject THE B(THESE DE NO	No. C60 EXP. 06 MIL OF CONSTANTINGS A TFOR CONST MIL OF CONST MIL OF CON	COOL COUL COUL COUL COUL COUL COUL COUL	ELIMINARY TON UNLESS BY THE DORD.	
44 Wo Los Ga	NC. od tos	E Roa , CA	ad A S	95030	
eet title TYF	PIC	AL	\mathbb{D}	ETAILS	
REVISIONS)	BY		REVISIONS	BY
РСК СОММЕ 5-4-22	NT				
AN NO.	JOB DR.	: 21-038 BLB		sheet no.	1
TE:	<i>SC:</i>				

AS NOTED

AND WSWH CONCRETE TEMPLATES. OTHER TYPES OF PREFABRICATED SHEARWALLS ARE NOT TO BE USED. ONLY THE SPECIFIED SIMPSON WSWH SHEARBRACE

LEGEND:

Ι.	INDICATES STRUCTURAL POST UP. SIZE, SPECIFICATIONS, ETC AS INDICATED PER PLAN
2.	INDICATES STRUCTURAL POST BELOW. SEE PLAN BELOW FOR SIZE, SPECIFICATIONS, ETC
З.	 INDICATES HOLDOWN TO FOUNDATION. PROVIDE 4x POST (MIN., U.N.O.) w/S.P.S. EDGE NAILING FULL HT. TO POST.
4.	SHEARWALL REFERENCE MARK
5.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.	INDICATES A FLR. ELEVATION CHANGE

FOOTING SCHEDULE						
PLAN INDICATOR	SIZE					
\bigcirc	24" X 24" X I2" DEEP					
	30" X 30" X I2" DEEP					
\diamond	36" X 36" X I8" DEEP					
\Diamond	42" X 42" X I8" DEEP					
<u>NOTE:</u> ALL FOOTING MINIMUM INTO UNDIS AT 12" EA. WAY 3"	95 SHALL BE EMBEDDED 12" 5TURBED GRADE w/#4 REBAR CLEAR FROM BTM. OF FOOTING.					

REVISIONS		BΥ	REVIS	610NS	E	37
PCK COMMEI 5-4-22	NT					
ΑΝ ΝΟ.	JOE	3: 21-038	SHEET	NO.		
	DR.	BLB		$\mathbf{S2}$	1	
TE:	SC:					

MAIN LEVEL FOUNDATION/FLOOR FRAMING PLAN

VALL SHEARWALL	1)	CEILING MAXIMUM HORIZONTAL SPAN	JOIST SC SIZE/SPACING	HEDULE TYPICAL HANGER (V.N.O.)
		0'-0" THRV 8'-6" 8'-7" THRV 14'-0" 14'-1" THRV 16'-3"	2 AT DOUG FIR #2 @ 16" o.c. 2x6 DOUG FIR #2 @ 16" o.c. 2x6 DOUG FIR #1 @ 12" o.c.	(LUS24-2 @ DBL. JST.) LUS26 (LUS26-2 @ DBL. JST.) LUS26 (LUS26-2 @ DBL _ IST.)
Z POST CAP	77		IN LEVEL BEAM SCH	FRAMING
<u>5</u> <u>3.3</u>	SHEARW	MARK M-I	SIZE 5 ¼"×II ½" versalam 3100. 2.0e 5 ¼"×II ½" versalam	ELEVATION (A.F.F.) -
SIMPSON ECCOQ BUCKET TO FACE OF HSS COLUMN, SEE 12/53.5		4) M-3 M-4	3100, 2.0e 5 1/4"×11 7/6" versalam 3100, 2.0e 7"×11 7/6" versalam	-
6 53.3 8	SHEARWA	M-5 M-6	5100, 2.0e 51/4"×11 7/6" versalam 3100, 2.0e 51/4"×11 7/6" versalam 3100, 2.0e	-
BW. M-2		В М-7 М-8	7"×11 7/8" versalam 3100, 2.0e 7"×11 7/8" versalam 3100, 2.0e	-
		M-9 M-10	7"×117%" versalam 3100, 2.0e 51/4"×117%" versalam 3100, 2.0e	-
SIMPSON ECCOQ BUCKET TO FACE OF HSS COLUMN, SEE 12/53.5	SHEARW	M-11 M-12	3 ½"×11 ½" versalam 3100, 2.0e 7"×11 ½" versalam 3100, 2.0e	-
SIMPSON CMSTI4XLENGTH SIMPSON CMSTI4XLENGTH SHOWN OVER 4X BLKG BETWEEN JOISTS		M-13 M-14	3100, 2.0e 31/2" "x11 7%" versalam 3100, 2.0e 51/4"x11 7%" versalam	-
WHERE "E.N." IS SPECIFIED ON THESE PLANS, PROVIDE WSNTL SHEATHING SCREWS AT 6" OC, TYP UNO AT STRAPS, DRAG	ארד	M-16 M-17	3100 (ripped) 5 1/4"x11 1/6" versalam 3100, 2.0e wl2x35	-
SIMPSON ECCOQ BUCKET TO FACE OF HSS COLUMN, SEE 12/53.5	SHEARW	M-18 M-19	5 1/4"×11 7/6" versalam 3100, 2.0e wl2x26	-
ILLET WELP		M-20 M-21	wl2x40 wl2x26	-
I, ALL ARCUND ILLET WELP AROUND RELLIS COLUMN TO WELD H55 TRELLIS COL DF M-19, T. P TO TOP OF M23, FILLET,		М-22 М-23	wlOx22 wlOx22	-
TYP ALL AROUND INTERRUPT DE SEE DETAIL 3 SEE DETAIL 3 BM. TO COLUM	 BL TOP PLATE AND BV53.5 AT STEEL MN CONNECTION,	M-24 M-25	wl2x40 5	-
Image: Stress of the stress	HOWN TIAX48" AT TOP PLATE	M-26 M-27	3/4 ×14 versalam 3/00, 2.0e 5 1/4"×11 7/6" versalam 3/00, 2.0e 5 1/4"×11 7/6" versalam	-
CLG. JST. PER CLG. JST. PER CLG. JST. SCHEDULE CLG. JST. SCHEDULE	77	M-28 M-29 M-30	3100, 2.0e 5 1/4"x11 7/6" versalam 3100, 2.0e 5 1/4"x11 7/6" versalam	-
LINE HANGERS PER CLG. JST. SCHEDULE (U.N.O.) BEAM, ALL AROUND) SHEARW	M-31 M-32	3100, 2.0e 3 1/2"x11 7/6" versalam 3100, 2.0e 3 1/2"x11 7/6" versalam 3100, 2.0e	-
	(6	5) M-33 M-34	3 ½"×11 ½" versalam 3100, 2.0e 5 ¼"×11 ½" versalam 3100, 2.0e	-
	SIMPSON ECO POST CAP T END OF M25	CQ YP EA M-36	5 ¼"×II 1⁄6" versalam 3100, 2.0e 5 ¼"×II 1⁄6" versalam 3100, 2.0e	-
PÉ LL ND.	- - -	M-37 M-38	5 1/4"×11 7/6" versalam 3100, 2.0e 5 1/4"×11 7/6" versalam 3100, 2.0e	-
	لى 1	M-39 M-40	5 % XII % Versalam 3100, 2.0e 5 % XII % versalam 3100, 2.0e	-
	BM. M-2	-	-	-
HDUB 53.3 STEEL BM. TO BM.	2 53.3 AT	:ARWALL		
CLG. JST. PER CLG. JST. SCHEDULE	=			
BREAK DBL TOP PLATE AND PROVIDE STEEL BEAM TO COL COL COL COL COL COL COL COL	R HEADER SIZE MING HOWN (TYP., U.N.O.)	SHEARWAU LIN		
CONNECTION PER II/53.5 INTERRUPT DBL TOP P SEE DETAIL 3/53.5 A FM TO COLUMN SOLUTION	PLATE AND T STEEL			
BM. TO COLUMN CONNE SIMPSON CMSTI4X48" BROKEN DBL TOP PLA	AT ATE			
$3) \qquad (2)^{SHEARWALL}_{LINE}$				
15/32" SHEAR WALL SCHE	DULE	<u>LEGEND:</u>		
MKSHEATHINGEDGE NAILINGANCHOR BOLTSPLY. JNT. STUD/ SILL PLATE (SEE #2 & #3 BLW)FLC A 15/32" STRUCTURAL I SHEATHING (OSB)8d @ 6" o.c. $5/8$ " ϕ @ 48" o.c. $2x$ $2x$ @ D	00R TRANSFER CONNECTIONS ⁴ 16d @ 4" o.c., ⁵ A35 @ 16" o.c.	I. INDIC, SPECI 2. INDIC,	ATES STRUCTURAL POS FICATIONS, ETC AS IN ATES STRUCTURAL POS	I UP. SIZE, IDICATED PER PLAN T BELOW. SEE PLAN
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	525600 @6"0.c., ⁵ -A35 @ 16" o.c. 9525600 @6"o.c. ^{6,1} -A35 @ 16" o.c.	З. Ф INDIC, STRAI	W FOR SIZE, SPECIFICA ATES VERTICALLY ORI P. SEE DETAILS 16/S3.4	TIONS, ETC ENTED CMSTI4x78" ! AND 17/53.4.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	r-LM14016" O.C., ^{0,0} -A35 <u>0</u> 16" O.C. -LPT4016" O.C., ^{6,9} -A35 <u>0</u> 16" O.C. D-LPT4016" C.C.	4	— SHEARWALL REF — LENGTH OF SHEA	FERENCE MARK ARWALL (FT-IN)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-A35 @ 16" o.c., -LPT4@16" o.c., ^{6,10} -A35 @ 16" o.c.	5. ******	⊠ INDICATES SHEARI THIS LEVEL UP. SHI PLACED ON SIDE (WALL PANEL FROM EATHING TO BE OF REFERENCE MARK.
 I. JLL FLANS FOR LOGATION AND SHEAR TRANSFER DETAILS FOR APPLICATION. 2. TYPE "E", "G" SHEAR WALL PANEL JOINTS EA. SIDE TO FALL ON DIFFERENT FRAMIN SILL AND STUDS PER NOTE 3. 3. PROVIDE 3X MIN. FOUNDATION SILL AND PANEL JOINT MEMBERS FOR SHEAR WALL TYP 4. STAGGER NAILS & SCREWS AS REQ'D. TO PREVENT SPLITTING OF RIMBOARD. 5. PROVIDE 1/2" MIN. EDGE NAILING DISTANCE TO ALL DBL. TOP PLATES, RIMBOARDS, STU MIDGULIS AND ANY OTHER STREAT MEMBERS 	NG MEMBERS OR 3x PE "B", THRV "G". IDS, SOLE PLATES,	6. 1777777777	INDICATES CONCR BELOW. SEE S2.1 F SHOWN.	ETE RETAINING WALLS FOR INFORMATION NOT
6. PROVIDE 5/6" MIN. EDGE SCREWING DISTANCE TO ALL DBL. TOP PLATES, RIMBOARDS, S PLATES, MUDSILLS, AND ANY OTHER STRUCTURAL MEMBER. 7. CONTRACTORS OPTION TO USE ONE SIMPSON LPT4 TIE PLATE @ 16" o.c. FOR TYPE "a" 8. CONTRACTORS OPTION TO USE ONE SIMPSON SD525500 SCREW @ 6" o.c. FOR TYPE "a 9. CONTRACTORS OPTION TO USE ONE SIMPSON SD525500 SCREW @ 4" o.c. FOR TYPE "a 10. CONTRACTORS OPTION TO USE ONE SIMPSON SD525500 SCREW @ 4" o.c. FOR TYPE "a	STVDS, SOLE CONNECTION. a" CONNECTION. a" CONNECTION.	7. •////////////////////////////////////	 INDICATES CONCR FROM THIS LEVEL INDICATES MAIN I 	ETE RETAINING WALLS UP. EVEL WALLS ABOVE
IC. COMING ICTORS OF THE TO USE ONE SHIFTSON SUSCEPT @ 5" O.C. FOR ITPE "C		9. []]]	I INDICATES LOWER	LEVEL WALLS BELOW

FRAMING NOTES I. ALL HARDWARE SHALL BE SIMPSON STRONG-TIE AND SHALL BE IN PLACE PRIOR TO INSPECTION. 2. JOISTS SPACING SHALL BE 16 OC MAX., UON. SIZES AS NOTED ON 3. SHEATH ALL EXTERIOR WALLS w/ 15/32" OSB w/ 8d @ 6"OC EDGE AND 12"OC FIELD NAILING. SEE SHEAR WALL AND BRACED WALL SCHEDULES FOR ADDITIONAL REQUIREMENTS. 4. ALL LOWER FLOOR BRG. WALL HEADERS AT BRACED PANEL WALL LINES SHALL BE 4x12 D.F. NO. 2, UON. 5. ALL FRAMING SHALL BE INSTALLED IN COMPLIANCE WITH 2019 CBC & CRC REQUIREMENTS. 6. ALL BEAMS AND HEADERS SHALL BE SUPPORTED WITH FULL BEARING. USE #2 DF-L SUPPORTS, UON. 7. ALL DOUBLE TOP PLATES OF BEARING WALLS SHALL BE #2 DF-L. FOR DESIGNATED SHEAR WALL LINES, LAP SPLICES SHALL BE 48" w/24-16d OR CSI4x42" STRAP, UON. 8. SEE DETAIL I/SI.I FOR TYPICAL BEARING WALL FRAMING INFORMATION. 9. ALL POSTS ARE 4x4 D.F. #2, TYP. UNO IO. ALL SOLID SAWN BEAMS ARE DOUGLAS FIR #2 UNO II. PROVIDE 4x POSTS UNDER ALL GIRDER TRUSSES UNO 12. ALL POST CAPS ARE ECCQ/CCQ POST CAPS TYP. UNO 13. SEE SI SHEETS FOR TYPICAL DETAILS AND NOTES NOT SHOWN HERE 14. SLOPING HANGER TO BE USED AT ALL SLOPING MEMBERS UNO 15. PROVIDE DBL. JOIST AND BLK'G. UNDER ALL FIREPLACE STONE, ROCK, OR BRICK FACED HEARTHS I6. FULL DEPTH, 4x K.D.D.F. SQUASH BLOCKS SHALL BE USED UNDER ALL POSTS AT SECOND LEVEL AND SHALL BEAR TIGHT ON DOUBLE TOP PLATES, BEAMS, OR POSTS AT FIRST LEVEL. 17. PROVIDE WEB STIFFENERS AT ALL END AND INTERMEDIATE JOIST BEARING LOCATIONS. REFER TO TJI RECOMMENDATIONS FOR ALL FRAMING STIFFENERS, HOLES, NAILING, ETC. 18. FLOOR PLYWOOD SHALL BE GLUED TO THE TOP OF THE FLOOR JOISTS AND NAILED AS SHOWN UNO

NOTES: I, SEE PLANS FOR LOCATION AND SHEAR TRANSFER DETAILS FOR APPLICATION. 2. TYPE "E", "F", "G" SHEAR WALL PANEL JOINTS EA. SIDE TO FALL ON DIFFERENT FRAMING MEMBERS OR 3x SILL AND STUDS PER NOTE 3. 3. PROVIDE 3X MIN. FOUNDATION SILL AND PANEL JOINT MEMBERS FOR SHEAR WALL TYPE "B", THRU "G". 4. STAGGER NAILS & SCREWS AS REQ'D. TO PREVENT SPLITTING OF RIMBOARD. STAGGER NAILS & SCREWS AS REQ'D. TO PREVENT SPLITTING OF RIMBOARD.
 PROVIDE ¹/₂" MIN. EDGE NAILING DISTANCE TO ALL DBL. TOP PLATES, RIMBOARDS, STUDS, SOLE PLATES, MUDSILLS, AND ANY OTHER STRUCTURAL MEMBER.
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THIS LEVEL UP. SHEATHING TO BE PLACED ON SIDE OF REFERENCE MARK. **VZZZZZZZ** INDICATES CONCRETE RETAINING WALLS BELOW. SEE S2.2 FOR INFORMATION NOT SHOWN. 7. INDICATES UPPER LEVEL WALLS ABOVE 8. [____] INDICATES MAIN LEVEL WALLS BELOW MINDICATES A FLR. ELEVATION CHANGE

FRAMING NOTES ALL HARDWARE SHALL BE SIMPSON STRONG-TIE AND SHALL BE IN PLACE PRIOR TO INSPECTION. JOISTS SPACING SHALL BE 16 OC MAX., VON. SIZES AS NOTED ON PLAN SHEATH ALL EXTERIOR WALLS w/ 15/32" OSB w/ 8d @ 6"OC EDGE AND 12"OC FIELD NAILING. SEE SHEAR WALL AND BRACED WALL SCHEDULES FOR ADDITIONAL REQUIREMENTS. 4. ALL LOWER FLOOR BRG. WALL HEADERS AT BRACED PANEL WALL LINES SHALL BE 4x12 D.F. NO. 2, UON. 5. ALL FRAMING SHALL BE INSTALLED IN COMPLIANCE WITH 2019 CBC & CRC REQUIREMENTS. 6. ALL BEAMS AND HEADERS SHALL BE SUPPORTED WITH FULL BEARING. USE #2 DF-L SUPPORTS, UON. ALL DOUBLE TOP PLATES OF BEARING WALLS SHALL BE #2 DF-L. FOR DESIGNATED SHEAR WALL LINES, LAP SPLICES SHALL BE 48" w/24-16d OR CSI4x42" STRAP, UON. B. SEE DETAIL I/SI.I FOR TYPICAL BEARING WALL FRAMING INFORMATION. 9. ALL POSTS ARE 4x4 D.F. #2, TYP. UNO IO. ALL SOLID SAWN BEAMS ARE DOUGLAS FIR #2 UNO II. PROVIDE 4x POSTS UNDER ALL GIRDER TRUSSES UNO 12. ALL POST CAPS ARE ECCQ/CCQ POST CAPS TYP. UNO 13. SEE SI SHEETS FOR TYPICAL DETAILS AND NOTES NOT SHOWN HERE 14. SLOPING HANGER TO BE USED AT ALL SLOPING MEMBERS UNO 15. PROVIDE DBL. JOIST AND BLK'G. UNDER ALL FIREPLACE STONE, ROCK, OR BRICK FACED HEARTHS 6. FULL DEPTH, 4x K.D.D.F. SQUASH BLOCKS SHALL BE USED UNDER ALL POSTS AT SECOND LEVEL AND SHALL BEAR TIGHT ON DOUBLE TOP PLATES, BEAMS, OR POSTS AT FIRST LEVEL. PROVIDE WEB STIFFENERS AT ALL END AND INTERMEDIATE JOIST BEARING LOCATIONS. REFER TO TJI RECOMMENDATIONS FOR ALL FRAMING STIFFENERS, HOLES, NAILING, ETC. B. FLOOR PLYWOOD SHALL BE GLUED TO THE TOP OF THE FLOOR JOISTS AND NAILED AS SHOWN UNO

ROOF FRAMING PLAN

SCALE: |/4" = |'-0"

			HIP/V BEAM	ALLEY Schedul f
			HORIZONTAL SPAN	MEMBER
			0-10'	3/2 × 7/2" MICROLAM
			10'-15'	2 - I ᢋ"xII ᠯ" 1ICROLAMS (STITCH NAILED)
			ROOF FR	RAMING
	7		BEAM SC	HEDULE
EXTEND R-18 OVER COLUMN AND PROVIDE	TMAL	MARK	SIZE	BEAM ELEVATION (AFE)
ECCLLQ POST CAP OR APPROVED EQUAL	SHEAR INE	R-1	5 /4"x11 /4" versalam 3100 200	-
WEDLED TO HSS COL.	A	R-2	5 1/4"x11 1/4" versalam 3100, 2.0e	-
		R-3	5	·) <u> </u>
	MALL	R-4	5 1/4"x9 1/4" versalam 3100, 2.0e	-
	N N N N N N N	R-5	6XIO DF#I 3 1/2"XIB versalam	-
		R-6	3/2/10 versalar 3/00, 2.0e 3/2"x9 1/2" versalar	-
	В	R-1 R-8	3100, 2.0e 3 1/2"x9 1/2" versalar	
SIMPSON IUS2.56/9.5 HANGER		R-9	3100, 2.0e 7"x9 ½" versalam w 1 ¾"; micralam w 3-sds at 12" oc	< 9 ½"
PROVIDE CCQ POST CAP		R-10	3 1/2"x9 1/2" versalan 31/00 20e	-
WELDED TO HSS COLUMN		R-11	5 ¼"x9 ¼" versalam <u>3100, 2.</u> 0e	-
		R-12	3 1/2"x14" versalam 3100, 2.0e	-
53.3		R-13	5 1/4"×11 1/8" versalan 3100, 2.0e	-
SIMPSON HU4IO HANGER		R-14	3100, 2.0e 5 1/4"x11 7/8" versalam	
		R-15 R-16	3100, 2.0e 6x12 pt. df #1	-
OVER DBL RAFTER AND 4X BLKG BETWEEN RAFTERS, LAP DBL 36" MIN.	TTAM	R-17	6x12 pt df #1	-
PROVIDE ECCQ POST CAP	IE ARI	R-18	6xl2 pt df #l	-
WELDED TO HSS COLUMN		R-19	6xl2 pt df #l	_
	E	R-20	5	-
	37. "	R-21	5 1/4" X9 1/2" Versalam 3100, 2.0e 3 1/2" x9 1/2" versalam	-
EXTEND R-24 OVER COLUMN, MITH FILLET WELD ALL AROUND, WELD F AP, TO SIDE OF R-24, FILLET/FLARE B	7/6 2-25 EVEL	R-22	3100, 2.0e 31/2"x91/2" versalan	-
ALL AROUND, TYP AT FOUR CORNE	RS	R-25 R-24		
		R-25	HSS 10x5x1/4"	_
		R-26	HSS 10x5x1/4"	-
		<i>R-2</i> 7	HSS 10x5x1/4"	_
		R-28	5 1/4"x14" versalam 3100, 2.0e	-
CMSTI4x78", LAP 48" MIN OVER SHEARWALL,		R-29	glu lam beam	-
<i>SEE DETAIL 15/53.4</i> <i>FOR BLK'G.</i>		R-30	6x12 df#1 (5 1/4"x9 1/2" versalam	
		$\bigwedge \left(\begin{array}{c} R-32 \end{array} \right)$	3100, 2.0e 5 1/4"x9 1/2"_versalam	
		(R-33	3100, 2.0e 31/2"x11 7/8" versalan 3100 2.0e	ı _
		R-34	3 1/2"x11 7/8"_versalan 3100, 2.0e	· _
		R-35	3 1/2"x11 7/6" versalan 3100, 2.0e	-
		R-36	3 1/2"×11 1/8" versalan 3100, 2.0e	-
SIMPSON CMSTI4X48" AT RIDGE OF DBL. RAFTER, FILL ALL NALL HOLEG		(R-37	3/2 *** 78_ versaidh 3/00, 2.0e 3 1/2"x11 7/8" versaidh	- -
		R-38	3100, 2.0e	-
		R-40	-	-
BA.		-	-	
		-	-	-
53.3	7			
	ARW			
	(κ)			
CMSTI4xLENGTH SHOWN OVER 4x BLK'G. BETWEEN PAETERS				

2 SHEARWALL LINE

LE	EGEND:
Ι.	INDICATES STRUCTURAL POST UP. SIZE, SPECIFICATIONS, ETC AS INDICATED PER PLAN
2.	INDICATES STRUCTURAL POST BELOW. SEE PLAN BELOW FOR SIZE, SPECIFICATIONS, ETC
З.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.	INDICATES EXTENT OF CALIFORNIA OVERFRAMING (2x6 DF #2 @ 24" o.c., TY w/8'-0" MAX. UNSUPPORTED LENGTH)
5.	INDICATES 2x DIAGONAL BRACE PER PLAN TO SUPPORTING MEMBER BELOW
6.	INDICATES UPPER LEVEL FLOOR WALLS BELOW

7. [____] INDICATES MAIN LEVEL WALLS BELOW

ALL HARDWARE SHALL BE SIMPSON STRONG-TIE AND SHALL BE IN PLACE PRIOR TO INSPECTION. JOISTS SPACING SHALL BE 16 OC MAX., UON. SIZES AS NOTED ON PLAN SHEATH ALL EXTERIOR WALLS w/ 15/32" OSB w/8d @ 6"OC EDGE AND 12"OC FIELD NAILING. SEE SHEAR WALL AND BRACED WALL SCHEDULES FOR ADDITIONAL REQUIREMENTS. 4. ALL LOWER FLOOR BRG. WALL HEADERS AT BRACED PANEL WALL LINES SHALL BE 4x12 D.F. NO. 2, UON. 5. ALL FRAMING SHALL BE INSTALLED IN COMPLIANCE WITH 2019 CBC & CRC REQUIREMENTS. . ALL BEAMS AND HEADERS SHALL BE SUPPORTED WITH FULL BEARING. USE #2 DF-L SUPPORTS, UON. ALL DOUBLE TOP PLATES OF BEARING WALLS SHALL BE #2 DF-L. FOR DESIGNATED SHEAR WALL LINES, LAP SPLICES SHALL . BE 48" w/24-I6d OR CSI4x42" STRAP, UON. 8. SEE DETAIL I/SI.I FOR TYPICAL BEARING WALL FRAMING INFORMATION. 9. ALL POSTS ARE 4x4 D.F. #2, TYP. UNO IO. ALL SOLID SAWN BEAMS ARE DOUGLAS FIR #2 UNO I. PROVIDE 4x POSTS UNDER ALL GIRDER TRUSSES UNO 12. ALL POST CAPS ARE ECCQ/CCQ POST CAPS TYP. UNO 13. SEE SI SHEETS FOR TYPICAL DETAILS AND NOTES NOT SHOWN HERE 4. SLOPING HANGER TO BE USED AT ALL SLOPING MEMBERS UNO

FRAMING NOTES

15. RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOISTS FOR A CONTINUOUS TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL, RAFTERS SHALL BE TIED TO I-INCH BY 4-INCH (NOMINAL) MINIMUM-SIZE CROSSTIES. RAFTER TIES SHALL BE SPACED NOT MORE THAN 4-FEET ON CENTER.

CORNER STONE STRUCTURAL CONSULTANTS 9005 ELK GROVE BLVD., SUITE 6, ELK GROVE, CA 95624 T: 916-638-0848								
THESE PLANS ARE THE PROPERTY OF CORNERSTONE STRUCTURAL CONSULTANTS FOR THE EXPRESS USE ON THIS PROJECT. ANY REPRODUCTION OR USE OF THIS DRAWING OR ANY OF ITS DETAILS WITHOUT WRITTEN CONSENT OF CORNERSTONE STRUCTURAL CONSULTANTS IS A VIOLATION OF COPYRIGHT LAW AND THE VIOLATOR MAY BE SUBJECT TO PROSECUTION IN A COURT OF LAW.								
PROFESSION No. C60001 EXP. 06/30/22 TVI I IN OF CALFORMED THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.								
roject Name THE BOUKNIGHT RESIDENCE 144 Wood Road Los Gatos, CA 95030								
EET TITLE							Ś	
REVISIONS		BY		REV	ISIONS		BY	
РСК СОММЕ 5-4-22	NT							
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4N NO.	JOE DR.	21-038 BLB	SHEET NO.					
TE: 11/29/2021	SC: A	S NOTEI	2			• _	<u>II</u>	

	DR JCT GROVE B	NE URAI LVD., SUITE 6,		ST ONSL ROVE, CA 9562	DN JLTAI 4 T: 916-638-0		
THESE PLANS ARE THE PROPERTY OF CORNERSTONE STRUCTURAL CONSULTANTS FOR THE EXPRESS USE ON THIS PROJECT. ANY REPRODUCTION OR USE OF THIS DRAWING OR ANY OF ITS DETAILS WITHOUT WRITTEN CONSENT OF CORNERSTONE STRUCTURAL CONSULTANTS IS A VIOLATION OF COPYRIGHT LAW AND THE VIOLATOR MAY BE SUBJECT TO PROSECUTION IN A COURT OF LAW.							
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CORNER STONE STRUCTURAL CONSULTANTS 9005 ELK GROVE BLVD., SUITE 6, ELK GROVE, CA 95624 T: 916-638-084 THESE PLANS ARE THE PROPERTY OF CORNERSTONE STRUCTURAL CONSULTANTS FOR THE EXPRESS USE ON THIS PROJECT. ANY REPRODUCTION OR USE OF THIS DRAWING OR ANY OF ITS DETAILS WITHOUT WRITTEN CONSENT OF CORNERSTONE STRUCTURAL CONSULTANTS IS A VIOLATION OF COPYRIGHT LAW AND THE VIOLATOR MAY BE SUBJECT TO PROSECUTION IN A COURT OF LAW. No. C60001 EXP. 06/30/2 THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD. Project Name THE BOUKNIGHT RESIDENCE 144 Wood Road Los Gatos, CA 95030 SHEET TITLE STRUCTURAL DETAILS REVISIONS REVISIONS PCK COMMENT ¹ 5-4-22 LAN NO. HEET NO. 21-038 \square \square BLB **り**し.) AS NOTEL 11/29/2021

CORNER ST STRUCTURAL CONSU 9005 ELK GROVE BLVD., SUITE 6, ELK GROVE, CA 95624	DNE JLTANTS T: 916-638-0848							
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THE BOUKNIGHT RESIDENCE 144 Wood Road Los Gatos, CA 9503	0							
FEET TITLE								
REVISIONS BY REVISI	ONS BY							
PCK COMMENT 5-4-22								
AN NO IOR. CUEET	NO							
21-038 DR. BLB SC:	3.4							

_	WSWH-ABI ANCHOR BOLT											
R TH	ASD ALLOWABLE UPLIFT (Ibs)	W (in)	de (in)									
חכ	16,000	31	11									
ND	17,100	33	11									
NGTH	33,900	49	17									
	36,800	52	18									
RD -	16,300	27	9									
	17,100	28	10									
NGTH	34,000	43	15									
	36,800	46	16									
	5,600	14	6									
RD	10,200	21	7									
	17,100	30	10									
	20,000	33	11									
	26,500	39	13									
	33,600	45	15									
	36,800	48	16									
	6,200	13	6									
RD	12,800	21	7									
	17,100	26	9									
	21,800	30	10									
	28,900	36	12									
NGIH	33,100	39	13									
	36.800	42	14									

			WSWH-ABI ANCHOR BOLT					
DESIGN CRITERIA	CONCRE TE CONDITION	ANCHOR STRENGTH	ASD ALLOWABLE UPLIFT (Ibs)	W (in)	de (in)			
		STANDARD	16,000	27	9			
		STANDAND	17,100	29	10			
		HICH STRENCTH	34,700	44	15			
SEISMIC			36,800	46	16			
JLIJIMIC		STANDARD	15,700	23	8			
		STANDAND	17,100	25	9			
	UNCHACKLD	UICH STRENCTH	33,900	38	13			
		THUT SINLINGIT	36,800	40	14			
			6,800	14	6			
	CRACKED	STANDARD	11,600	20	7			
			17,100	26	9			
			21,400	30	10			
		ИГЛИ СТРЕМАТИ	28,400	36	12			
		NIGN SINENGIN	32,400	39	13			
			36,800	43	15			
WIND			6,800	12	6			
		STANDARD	12,400	18	6			
			17,100	23	8			
	UNCRACKED		22,800	27	9			
			26,700	30	10			
		NIGH SIKENGIH	30,700	33	11			
			36,800	37	13			

		SEISMIC ³		WIND ⁴						
MODEL	MODEL $L_t OR$ $L_h (in.)$	SHEAR REINFORCEMENT	MIN. CURB/ STEMWALL	SHEAR REINFORCEMENT	MIN. CURB/ STEMWALL	ASD ALLOWABLE SHEAR LOAD, V (Ib.)				
						UNCRACKED	CRACKED			
WSWH12	10 1/4	(1) #3 TIE	6	SEE NOTE 7	6	1,080	770			
WSWH18	15	(2) #3 HAIRPINS ^{5,6}	6	(1) #3 HAIRPIN	6	HAIRPIN REINF.	ACHIEVES MAX.			
WSWH24	19	(2) #3 HAIRPINS ⁵	6	(2) #3 HAIRPINS ⁵	6	ALLUW SHEAR	SWH			

	_	BC
SDS ¼"x6" SCF ROM THE TOP S PLATES PER QT ACING REQUIREM D IN 8/WSWH2.	REWS SIDE TY. IENTS	DATE REVISIONS 20-2020 FIRST RELEASE - 2018 5-16-2021 2021 IBC REVISIONS
- 4x SHIM BLOG	CK	ON O
6/WSWH2 FOR	TOP	REGISSION REGISSION CITIENT
STRONG-WALL®	HEIGHT ENT IG BY S	-Tie, Co. Inc.
HIGH STRENGTH WOOD SHEARWA TG HOLES ALLOWED OP 8" OF PANE E DRILL ZONE TER 4 %" OF P E AS SHOWN ABOVE EXISTING E, MIN.	ALL 9 EL ANEL	APSON SIMPSON 55956 W. Las Positas Blvd. • 5956 W. Las Positas Blvd. Pleasanton, CA 94588 • Tel: (800) 999–5099 • Website: www.strongtie.com
<u>For</u> <u>4x7 panel onl</u> of one 4 %"> - Rom top of El, min.	<u>Y</u> <6"	
<u>HOLES</u> D HOLES		ETAIL DESIG
ES	10	NG D RED
DEMARKED BY VD., PLEASANTO E COMPANY INC DEPARTMENT. THE STRUCTUR LOAD PATH TO SPONSIBILITY OF ONS. C. PRIOR TO NY THE DESIGNER F	ON, " RE. F OR	STRONG-1 FRAMI ENGINEE
NGS. THE ARE THE SOLE CATIONS, DESIGN R ADDITIONAL	√S,	SIMPSON Strong-Tie
		NAME DATE 03-16-2021 SCALE N.T.S. CHECKED SHEET WSWH2
		~ -

_6"w x 1'd conc. footing grout header course over footing A ^{-95%} compacted sub-grade ____ | | |_____ | | |_____ Interlocking Paver w/ Conc. Footing _6"w x 1'd conc. footing grout header course over footing B -Geo-textile layer Permeable Pavers _6"w x 1'd conc. footing grout header course over footing -Stone paving Clean sand fill between joints \frown Permeable Stone Paving _____ Asphalt Paving for of the rest of Ε _____ _____ Stone over Concrete Paving _____ Concrete Paving G ____<u>| | | ____</u>| | | <u>____</u> | | | _____ ` Stepping Stones KGKOKOGK" Η Decomposed Granite Paving _____ J Gravel Paving PAVING LEGEND 1/2" = 1'-0"

-80mm interlocking pavers -1.5" Sand leveling course -8" 95% compacted class 2 base

-80mm permeable pavers for H20/HS20 loading Clean sand fill between joints - 2" ASTM #8 open grade, setting bed – 4" ASTM #57 open grade, self-compacting base course – 6" ASTM #2 open grade, self-compacting sub-base course -90% compacted sub-grade

– 2" ASTM #8 open grade, setting bed

- 4" ASTM #57 open grade, self-compacting base course - 6" ASTM #2 open grade, self-compacting sub-base course -Geo-textile layer over 95% compacted sub-grade

1.5" asphalt leveling course, compacted thickness

4" asphalt base course, compacted thickness - 8" 95% compacted class 2 base rock

- 95% compacted sub-grade

Stone paving w/ colored mortar joints

4" concrete slab w/ #4's 12" OC, both ways

8" 95% compacted class 2 base rock

95% compacted sub-grade

4" conc. slab, lt. broom finish w/ #4's @ 12" OC both ways

8" 95% class 2 base rock

95% compacted sub-grade

Ground cover between stones, see planting plan

Bluestone stepping stones, 3'-4' typ. size set 6-8" apart to allow for planting Compact soil under stones to set Amended top soil

3" decomposed granite top layer, machine compacted w/ binder 'OrganicLock' or equal 2x4 or dbl 1x4 Trex header w/ 10" stakes

@ 36" OC 3" compacted class 2 base rock

Machine compacted sub-grade

- 8" pea gravel or $\frac{1}{4}$ " granite gravel

2x8 PT fir or 6" steel header w/ 18"

stakes @ 30" OC - Geotextile layer or filter fabric

Machine compacted sub-grade

BOUK-PAVE-Ø1

BOUK-METAL-Ø2

REFE	RENCE NOTES SCHEDULE	Tree Species	I.D. #	Trunk	~ Canopy	Conditi
SYMBOL	DESCRIPTION			Diameter (in.)	Diameter (ft.)	
1	Existing tree from arborist report	valley oak (Quercus agrifolia)	101	24	45	Fair/50°
3	Existing tree to remain (typical) Tree to be removed (typical)	bay laurel (<i>Umbellularia</i> californica)	102	12, 6	15	Fair/50°
5	Tree canopy from arborist report	bay laurel (<i>Umbellularia</i> californica)	103	.9	15	Good/7
8	Fire truck turnaround	coast live oak (Quercus agrifolia)	104	16, 16, 16,		Fair/509
10	New residence	coast live oak (<i>Quercus agrifolia</i>)	105	12	35	Good/7
11	Proposed pool and spa		7			
12	Proposed play area	coast live oak (<i>Quercus agrifolia</i>)	106	18	25	Fair/50°
14	Stone patios set on permeable base	coast live oak (Quercus agrifolia)	107	20	35	Fair/50°
15	Proposed tree protection fencing Type 1	bay laurel (Umbellularia californica)	108	16	25	Good/7
29	Driveway paving with installation that meets H/20 and HS/20 load standards	coast live oak (Quercus agrifolia)	109	10	20	Good/7
30	Driveway to garage	coast live oak (<i>Quercus agrifolia</i>)	110	18	25	Good/7
49	This section of path to be deferred until tree fencing can be removed					
		coast live oak (<i>Quercus agrifolia</i>)	111	6	15	Good/7
Tree Prote	ection Zones and Fence Specifications materials: Six (6) foot high chain link fencing, mounted on two-inch diameter	coast live oak (Quercus agrifolia)	112	6	15	Good/7
galvanized more than t tree preserv	iron posts, shall be driven into the ground to a depth of at least two (2) feet at no en-foot spacing. For paving area that will not be demolished and when stipulated in a vation plan, posts may be supported by a concrete base.	coast live oak (Quercus agrifolia)	113	27	45	Good/7
2. Area type	e to be fenced: Type I: Enclosure with chain link fencing of either the entire dripline	coast live oak (Quercus agrifolia)	114	8	20	Good/7

area or at the tree protection zone (TPZ), when specified by a certified or consulting arborist. Type II: Enclosure for street trees located in a planter strip: chain link fence around the entire planter strip to the outer branches. Type III: Protection for a tree located in a small planter cutout only (such as downtown): orange plastic fencing shall be wrapped around the trunk from the ground to the first branch with two-inch wooden boards bound securely on the outside. Caution shall be used to avoid damaging any bark or branches. 3. Duration of Type I, II, III fencing: Fencing shall be erected before demolition, grading or construction permits are issued and remain in place until the work is completed. Contractor shall

first obtain the approval of the project arborist on record prior to removing a tree protection fence.

4. Warning Sign: Each tree fence shall have prominently displayed an eight and one-half-inch by eleven-inch sign stating: "Warning—Tree Protection Zone—This fence shall not be removed and is subject to penalty according to Town Code 29.10.1025." Text on the signs should be in both English and Spanish (Appendix E).

All persons, shall comply with the following precautions 1. Prior to the commencement of construction, install the fence at the dripline, or tree protection zone (TPZ) when specified in an approved arborist report, around any tree and/or vegetation to be retained which could be affected by the construction and prohibit any storage of construction materials or other materials, equipment cleaning, or parking of vehicles within the TPZ. The dripline shall not be altered in any way so as to increase the encroachment of the construction. 2. Prohibit all construction activities within the TPZ, including but not limited to: excavation, grading, drainage and leveling within the dripline of the tree unless approved by the Director. 3. Prohibit disposal or depositing of oil, gasoline, chemicals or other harmful materials within the dripline of or in drainage channels, swales or areas that may lead to the dripline of a protected tree.

4. Prohibit the attachment of wires, signs or ropes to any protected tree. 5. Design utility services and irrigation lines to be located outside of the dripline when feasible. 6. Retain the services of a certified or consulting arborist who shall serve as the project arborist for periodic monitoring of the project site and the health of those trees to be preserved. The project arborist shall be present whenever activities occur which may pose a potential threat to the health of the trees to be preserved and shall document all site visits. 7. The Director and project arborist shall be notified of any damage that occurs to a protected tree during construction so that proper treatment may be administered.

New 60" box Sequoia Sempervirens - Redwood to be planted as shown

/ 2" dia x 8' galv. steel fence post / Chain link fabric Drive minimum 24" into soil

Tree Species	I.D. #	Trunk Diameter (in.)	~ Canopy Diameter (ft.)	Condition	Suitability	Expected Impact
valley oak (<i>Quercus agrifolia</i>)	101	24	45	Fair/50%	Fair	Low
bay laurel (<i>Umbellularia</i> californica)	102	12, 6	15	Fair/50%	Fair	Low
bay laurel (<i>Umbellularia</i> californica)	103	9	15	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	104	16, 16, 16, 12		Fair/50%	Fair	Low
coast live oak (<i>Quercus agrifolia</i>)	105	18	35	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	106	18	25	Fair/50%	Fair	Low
coast live oak (<i>Quercus agrifolia</i>)	107	20	35	Fair/50%	Fair	Low
bay laurel (<i>Umbellularia</i> californica)	108	16	25	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	109	10	20	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	110	18	25	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	111	6	15	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	112	6	15	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	113	27	45	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	114	8	20	Good/70%	Good	Low
coast live oak (<i>Quercus agrifolia</i>)	115	2, 4	12	Fair/	Fair	Low
bay laurel (<i>Umbellularia</i> californica)	116	4, 4 multi	12	Fair/	Fair	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	117	9, 6	25	Fair/	Fair	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	118	12, 12	35	Fair/	Fair	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	119	20, 26	45	Fair/	Fair	Low
coast live oak (<i>Quercus agrifolia</i>)	120	8	20	Good/70%	Good	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	121	12	25	Good/70%	Good	Moderate- High
bay laurel (<i>Umbellularia</i> californica)	122	6	10	Good/70%	Good	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	123	8	20	Good/70%	Good	Moderate- High
bay laurel (<i>Umbellularia</i> californica)	124	11	20	Good/70%	Good	Moderate- High
bay laurel (<i>Umbellularia</i> californica)	125	9	20	Good/70%	Good	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	126	7	20	Fair/50%	Fair	Moderate- High
coast live oak (<i>Quercus agrifolia</i>)	127	12, 12	35	Fair/50%	Fair	Low
valley oak (<i>Quercus agrifolia</i>)	128	24	40	Fair/50%	Fair	Low
coast live oak (<i>Quercus agrifolia</i>)	129	12	25	Good/70%	Good	Low
bay laurel (Umbellularia californica)	130	5, 5	20	Fair/50%	Fair	Low
bay laurel (Umbellularia californica)	131	8	15	Good/70%	Good	Low
bay laurel (<i>Umbellularia</i> californica)	132	8	15	Poor/15	Poor	Low
coast live oak (Quercus agrifolia)	133	13, 18, 18	45	Fair/50%	Fair	Low
bay laurel (<i>Umbellularia</i> californica)	134	7, 11, 10	30	Fair/50%	Fair	Low
bay laurel (Umbellularia californica)	135	6	15	Good/70%	Good	Low
bay laurel (<i>Umbellularia</i> californica)	136	12	30	Fair/50%	Fair	Low
coast live oak (<i>Quercus agrifolia</i>)	137	16	30	Fair/50%	Fair	Low
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	PLANT	SCH	EDULE					REVISIONS 5-17-22	BY
	SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	<u>SIZE</u> 1 gal	<u>QTY</u> 5	<u>WUCOLS</u> M	Per plan check comments	DRF
	\bigcirc	AL	Acacia redolens `Low Bov`	Low Boy Bank Catclaw	5 gal	14	VL		
	$\langle + \rangle$	AA2	Anemone x hybrida `Alba`	White Japanese Anemone	1 gal	23	М		
5		AH2	Anigozanthos x `Big Red`	Big Red Kangaroo Paw	5 gal	20	L		
	$\left(\begin{array}{c} \\ + \end{array}\right)$	AH	Arctostaphylos densiflora `Howard McMinn`	Howard McMinn Manzanita	5 gal	21	L		
~		BP	Baccharis pilularis `Pigeon Point`	Coyote Brush	5 gal	41	L		
	\bigcirc	BG	Buxus x `Green Mountain`	Boxwood	5 gal	2	М	ecture	
	$\langle \cdot \rangle$	CL	Callistemon citrinus `Little John`	Dwarf Bottle Brush	5 gal	12	L	ie Archit	
-		сү	Ceanothus `Yankee Point`	California Lilac	1 gal	31	L	andscap 95125 david@ft	
	"humm	ÇG	Ceanothus gloriosus	Point Reyes Creeper	5 gal	4	L	pany∍Lá san jose	
		CP2	Ceanothus griseus `Point Sal`	Point Sal Carmel Ceanothus	1 gal	7	L	& Com Avenue hone	
	<	CD	Ceanothus x `Dark Star`	California Lilac	5 gal	14	L	R. Fox otenberg 1-0212 pl	
/	· settingerter	СС	Clytostoma callistegioides	Violet Trumpet Vine	5 gal	2	Μ	1188 k 408-76	
	. Matthewar	DB2	Distictis buccinatoria	Blood Red Trumpet Vine	5 gal	1	Μ		
	sestera.	FM	Ficus pumila minima	Creeping Fig	5 gal	10	Μ		
	(+)	НС	Heuchera villosa `Citronelle`	Coral Bells	1 gal	4	Μ		
		LP	Lantana montevidensis	Trailing Lantana	1 gal	9	L		
	\odot	LA	Lantana montevidensis `Alba`	White Trailing Lantana	1 gal	17	L		
	\circledast	LP2	Limonium perezii	Statice	1 gal	7	L	44 K 24 K	
		MS	Miscanthus sinensis `Adagio`	Adagio Eulalia Grass	5 gal	4	Μ		
		ML	Miscanthus sinensis `Little Kitten`	Little Kitten Eulalia Grass	1 gal	22	L		
	31110000000000000000000000000000000000	MP	Miscanthus sinensis `Purpurescens`	Flame Eulalia Grass	5 gal	3	М		
	0	MR	Muhlenbergia rigens	Deer Grass	1 gal	2	L		
	30100000000000000000000000000000000000	PR3	Pennisetum rubrum	Red Fountain Grass	5 gal	2	L	ting	
	•	PL	Perovskia atriplicifolia `Lacey Blue`	Russian Sage	5 gal	16	L	lant	
	+	PB2	Phormium tenax `Bronze Baby`	Bronze Baby New Zealand Flax	1 gal	4	L		
	\bigcirc	RC2	Rhamnus californica	California Coffee Berry	5 gal	12	L		
	+	VRL	Rosa banksiae `Lutea`	Banksia Rose	5 gal	11	L		
	·	RC	Rosa x `lceburg`	Iceburg White Rose	5 gal	5	L		
	+	SP2	Salvia `Celestial Blue`	Santa Rosa Island Sage	1 gal	45	L	e	
	£	SG	Sempervivum x `Green Giant`	Hen-and-Chicks	1 gal	3	L		מ
	\bigotimes	SV	Senecio vitalis	Blue Chalk Fingers	1 gal	3	L	esic	
	+	VC	Vitis californica `Roger`s Red`	California Wild Grape	1 gal	9	L	IT R	5
	(+)	ZG	Zantedeschia aethiopica `White Giant`	White Giant Calla Lily	1 gal	2	Μ	ad	
		SCH	EDULE					ukr d Ro	n
	TREES		BOTANICAL NAME	COMMON NAME	SIZE	QTY	WUCOLS		
	•	СН	Ceanothus x `Ray Hartman`	Ray Hartman Wild Lilac	24" Box	3	L	The 144 V	200
	+	СО	Cercis occidentalis	Western Redbud Multi-trunk	24" Box	24	VL	Date 1 12 21	
	•	CD2	Citrus x aurantiifolia `Dwarf Bearss Seedless`	Dwarf Bearss Seedless Lime	15 gal	1	М	Scale 1"=10'-0)"
	•	CD3	Citrus x limon `Dwarf Improved Meyer`	Dwarf Improved Meyer Lemon	15 gal.	1	Μ	Drawn DRF/ MC	F
	A F	PR2	Platanus racemosa	California Sycamore	24"box	2	Μ	Job Booknight Sheet	
	•	QA	Quercus agrifolia	Coast Live Oak	24" Box	3	VL	L6.0	$\mathbf{)}$
	\checkmark							Of . Shee	ets

							A three the soil	inch m	ninimui	m layer of	compost sha	all be inco	orporated	d into	5-1 Per	7-22 plan	DRF
							A three planting have be	inch m g area, een cor	ninimui or whe mplete	m layer of ere noted d.	mulch shall I on the plans,	oe spreac after pla	d across nting ope	the erations	_che	ck comments	
							Irrigatio	n contr	oller to	o be equip	ped with rain	sensor.					
							A soil n analysi recomn	nanage s shall nendati nendati	ement be pro ions fo	orogram s vided prio r soil prep	hall be provid r to the start aration meas	ded. A sit of constru- sures. A c	e specifi uction wi copy of th	c soils ith nese			
							A Certi	ficate o	of Com	pletion sh	all be submit	ted to the	Town o	f Los			
•							Gatos. a. li b. li c. A	rrigation rrigation २ diagra which s	n audit n and l am of t hall be	t report, pr landscape the irrigation kept with	repared by a maintenanco on plan show the controlle	third part e schedu ving the h er.	y. les. ydrozone	es,		Architecture	
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ormation dress:	David Fox 145 Wood Road Los Gatos, CA	d 95030		SYMBOL		M R M	IANUFAC ain Bird X Iedium Fl	TURER/N	MODEL/ PRF 1" Control I	DESCRIPTIO	<u>DN</u> ve. 1" pressure		<u>QTY</u> 14	DETAIL			
scape area: be: ply: plier: nformation:	12,274 st Private Potable San Jose Wate David Fox	r			۲	re P P	egulating ipe Trans ipe transi	filter, 40p ition Poir tion poin	nt in Drip t from P	o Box VC lateral to	drip tubing with	PM. riser in	16				
rmation:	1188 Kotenberg San Jose, CA 9 408-761-0212 Kavita and Oma 145 Wood Road Los Gatos, CA 408-761-0212	g Ave 95125 ari Bouknigh d 95030	t	+ + + + + +	+ + + + + + + + + + + + + + + + + + +	6 + A + R S S	" (150mm area to Re ain Bird F ingle Out ielf-Piercir iPH=viole) drip bo ceive Dri 'C let, Press ng Barb I et; 10 GF	p Emitte sure Cor nlet. Flo H=gree	ers mpensating ow rate: 5 Gl en; 12 GPH=	Drip Emitters wit PH=light brown; dark brown; 18	h ; 7	9,053 s.f.				
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- CONT. BOND BEAM - TIE INTO VERTICAL STEEL

— (2) #4 BARS SPLICED TO FACE BOND BARS. EXTEND AT 45" DOWN 24" BELOW BOND BEAM

- (4) #4 BOND BARS