

VICINITY MAP NOT TO SCALE

COTA VERA SWIM CLUB

CHULA VISTA, CALIFORNIA A DEVELOPMENT OF:

HOMEFED CORPORATION

PROJECT TEAM

OWNER:

HOMEFED CORPORATION 1903 Wright Place, Suite 220 Carlsbad, California 92008 (760) 918 8200 Main (760) 219 1159 Cell Contact: Don Ross email: HYPERLINK "mailto:dross@hfc-ca.com" dross@hfc-ca.com

ARCHITECT: STARCK ARCHITECTURE + PLANNING

2045 Kettner Blvd. Suite 100 San Diego, CA 92101 Contact: Dan Mullen, Jamie Starck, Sorapong Thamayongkit (619) 299-7070 email: dan@starckap.com; HYPERLINK "mailto:jamie@starckap.com" jamie@starckap.com; sorapong@starckap.com

CIVIL:

HUNSAKER & ASSOCIATES 9707 Waples Street San Diego, CA 92121 (858) 558-4500 Contact: Yolanda Calvo, Troy Burns Email: Ycalvo@hunsakersd.com; HYPERLINK "mailto:Tburns@hunsakersd.com" Tburns@hunsakersd.com

LANDSCAPE: BRIGHTVIEW

POOL DESIGN:

(949) 493-8495 F

(714) 350-2310 C

SITE ELECTRICAL:

Aquatic Technologies Contact: David Hart (949) 493-9548 (949) 276-7609 D

8 Hughes, Suite 150 Irvine, CA 92618 Contact: Hwa Wang, Brandon Tang, Dan Hoon (949) 238 4900 office (714) 656 1019 Hwa direct email: HYPERLINK "mailto:hwa.wang@brightview.com" hwa.wang@brightview.com; Brandon.Tang@brightview.com dan.hoon@brightview.com

REMARKS

PROJECT TEAM CONT.

STRUCTURAL ENGINEER/MECHANICAL/MEP/TITLE 24: HARRIS & SLOAN Contact: Perrin Johal, Katie Lillidoll (916) 812 6790 (916) 812-6799 (Office-Perrin) (916) 834-1098 (Cell-Perrin) (916) 921-2441 (Office-Katie) (916) 796-3418 (Cell-Katie) Email: pjohal@harrisandsloan.com killyeelo Rol Nakrisaanittoto ahiectonth@harrisandsloan.com"

SOILS ENGINEER: ADVANCED GEOTECHNICAL SOLUTIONS (AGS) Contact: PJ Derisi (619) 850-3980 Email: pauld@adv-geosolutions.com

UTILITY CONSULTANT **ENGINEERING PARTNERS** Contact: Evan Likes (858) 824-1761 Email: evan@engineeringpartners.com

POST TENSION DESIGN WADELL AND ASSOCIATES Contact: Ian Waddell (714) 334-5441 Email: lan@iwaddell.com

SOLAR Contact: Addison Marks Email: addison.marks@sunpower.com

RTM ENGINEERING CONSULTANTS 74770 Highway 111 Suite 203 Indian Wells, California 92210 Contact: Fernando Rodriguez, Victor Leon (760) 306-4473 (760) 340-9005 Main (760) 296-8918 Cell Email: Fernando.Rodriguez@rtmec.com; Victor.Leon@rtmec.com

Email: Dave@aquatictechnologies.com

SHEET INDEX

| | ARCHITECTURAL | | | | |
|-------|--|--|--|--|--|
| A0-1 | TITLE SHEET | | | | |
| A0-2 | GENERAL NOTES, ABBREVIATIONS | | | | |
| A0-3 | AREA ANALYSIS | | | | |
| A0-4 | CODE ANALYSIS | | | | |
| A0-5 | GREEN STANDARDS | | | | |
| A0-6 | GREEN STANDARDS | | | | |
| A0-7 | GREEN STANDARDS | | | | |
| A1-1 | FLAT WORK KEYPLAN | | | | |
| A1-2 | FIRST FLOOR KEYPLAN | | | | |
| A1-3 | ROOF KEYPLAN | | | | |
| A1-4 | REFLECTED CEILING PLAN | | | | |
| A1-5 | INTERIOR ELEVATIONS | | | | |
| A1-6 | INTERIOR ELEVATIONS | | | | |
| A2-1 | FLAT WORK SEGMENT 1 | | | | |
| A2-2 | FLAT WORK SEGMENT 2 | | | | |
| A2-3 | FLOOR PLAN SEGMENT 1 | | | | |
| A2-4 | FLOOR PLAN SEGMENT 2 | | | | |
| A2-5 | ROOF PLAN SEGMENT 1 | | | | |
| A2-6 | ROOF PLAN SEGMENT 2 | | | | |
| A4-1 | BUILDING SECTIONS | | | | |
| A4-2 | BUILDING SECTIONS | | | | |
| A5-1 | EXTERIOR ELEVATIONS | | | | |
| A5-2 | EXTERIOR ELEVATIONS | | | | |
| A6-1 | FLAT WORK, FLOOR PLAN, ROOF PLAN | | | | |
| A6-2 | SECTION, EXT. ELEVATIONS | | | | |
| AD-1 | ARCHITECTURAL DETAILS | | | | |
| AD-2 | ARCHITECTURAL DETAILS | | | | |
| AD-3 | ARCHITECTURAL DETAILS | | | | |
| AD-4 | ARCHITECTURAL DETAILS | | | | |
| AD-5 | ARCHITECTURAL DETAILS | | | | |
| AD-6 | ARCHITECTURAL DETAILS | | | | |
| | CIVII | | | | |
| C01 | | | | | |
| C01 | | | | | |
| C02 | | | | | |
| C03 | | | | | |
| 004 | FREGISE GRADING FLAN | | | | |
| | | | | | |
| 0114 | | | | | |
| SN.1 | STANDARD NOTES | | | | |
| SN.2 | | | | | |
| SN.3 | STANDARD DETAILS | | | | |
| S1.1 | LEVEL 0 PLAN (FOUNDATION) - SEGMENT 1 | | | | |
| S1.1A | LEVEL 0 PLAN (FOUNDATION) - SEGMENT 2 | | | | |
| S1.2 | ILEVEL 1 PLAN (ROOF FRAMING) - SEGMENT 1 | | | | |

VEL 1 PLAN (ROOF FRAMING) - SEGMENT 2

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

EVEL 0 PLAN (FDN) & LEVEL 1 PLAN (ROOF FR) - TRASH ENCLOSUR

| | POST TENSION |
|-------|--|
| PTD | POST TENSION DETAILS AND GENERAL NOTES |
| PT1 | POST TENSION FOUNDATION & PLACEMENT PLAN |
| | |
| | MECHANICAL |
| MN.1 | STANDARD NOTES |
| MN.2 | STANDARD DETAILS |
| M1.1 | LEVEL 1 MECHANICAL LAYOUT - SEGMENT 1 |
| M1.1A | LEVEL 1 MECHANICAL LAYOUT - SEGMENT 2 |
| MD.1 | MECHANICAL DETAILS |
| | |
| | ELECTRICAL |
| EN.1 | STANDARD NOTES AND LOAD CALCULATIONS |
| EN.2 | ONE-LINE AND CLOSET LAYOUTS |
| EN.3 | FIXTURE SCHEDULES, DETAILS, NOTES |
| EN.4 | TITLE 24 INDOOR LIGHTING FORMS - POOL BLDG |
| EN.5 | TITLE 24 INDOOR LIGHTING FORMS - OFFICE BLDG |
| EN.6 | TITLE 24 INDOOR LIGHTING FORMS - POOL BLDG |
| ES.1 | ELECTRICAL SITE LAYOUT |
| E1.1 | LEVEL 1 ELECTRICAL LAYOUT - COMMUNITY BLDG - OFFICE BLDG |
| E1.1A | LEVEL 1 ELECTRICAL LAYOUT - COMMUNITY BLDG - POOL BLDG |
| E2.1 | LEVEL 1 ELECTRICAL LAYOUT - TRASH ENCLOSURE |
| | |
| | PLUMBING |
| PN.1 | STANDARD NOTES |
| PN.2 | STANDARD DETAILS |
| PS.1 | POOL SITE GAS & WATER LAYOUT PLAN |
| P1.1 | LEVEL 1 WATER & GAS LAYOUT - SEGMENT 1 |
| P1.1A | LEVEL 1 WATER & GAS LAYOUT - SEGMENT 2 |
| P1.2 | FOUNDATION DRAIN, WASTE & VENT LAYOUT - SEGMENT 1 |
| P1.2A | FOUNDATION DRAIN, WASTE & VENT LAYOUT - SEGMENT 2 |
| P1.3 | LEVEL 1 DRAIN, WASTE & VENT LAYOUT - SEGMENT 1 |
| P1.3A | LEVEL 1 DRAIN, WASTE & VENT LAYOUT - SEGMENT 2 |
| PD.1 | PLUMBING DETAILS |
| | |
| | |
| | TITLE 24 |
| T1.1 | TITLE 24 SWIM CLUB TITLE 24 COMPLIANCE |



ENCL: Enclosure

ENG: Engineer

ENT: Entrance

ABBREVIATIONS At (the rate of)
 At
 At

At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At
 At And Inch, Ditto (which means "same as above") # Number or Pound Diameter A: Area, Acre, Alcove AB: Anchor Bolt ABV: Above AC: Air Conditioning, Alternating Current ACC: Access Accesserories ACF: Architectural Concrete Finish ACI: American Concrete Institute ACR: Acrylic ACST: Acoustic(al) ACT: Acoustical Tile, Actual AD: Access Door, Area Drain ADA: Americans with Disabilities Act of 1992 ADAAG: ADA Architectural Guidelines ADD: Addendum, Addition(al) ADH: Adhesive ADJ: Adjust, Adjustable, Adjacent AFF: Above Finished Floor AGA: American Gas Association AGG: Aggregate AIA: American Institute of Architects AISC: American Institute of Steel Construction AL: Aluminum ALM: Alarm ALT: Alternate, Alteration, Altitude AMB: Ambient AMP: Ampere, Ampaciti AMT: Amount ANCH: Anchor, Anchorage ANN: Annunciator ANOD: Anodized ANT: Antenna AP: Access Panel APPD: Approved APPROX: Approximate APT: Apartment ARCH: Architect, Architectural AS: Acoustic Sealant ASC: Above Suspended Ceiling ASPH: Asphalt ASSEM: Assemble, Assemblu ASSOC: Association, Associate ASTM: American Society for Testing and Materials AT: Acoustical Tile, Asphalt Tile ATC: Acoustical Tile Ceiling ATTEN: Attenuation AUTH: Authorized AUTO: Automatic AVG: Average B/: Bottom of BA: Bath(room) BAL: Balance, Ballast BALC: Balcony BB: Bulletin Board BD: Board Blow Down (pipe) BDY: Boundaru BDRM: Bedroom BEL: Below BET: Between BEV: Bevel BF: Back Face, Bottom Face, Both Faces BIT: Bituminous BJF: Bituminous Joint Filler BKR: Breaker BL: Base Line, Building Line, Block BLDG: Building BLK: Block BLKG: Blocking BLKT: Blanket BLT-IN: Built-In BM: Beam Bench Mark BN: Bullnose, Boundary Nailing BOT: Bottom BP: Base Plate BPL: Bearina Plate BR: Bedroom, Brick, Brass BRCG: Bracing BRDG: Bridge, Bridging BRG: Bearing BRKT: Bracket BS: Both Sides Backset BSMT: Basement BT: Bathtub, Bolt BTU: British Thermal Units BTUH: British Thermal Units per Hour BUR: Built-up Roof B√: Butterfly √alve B∨L: Bevelled BM: Both Mays BYP: By Pass C: Courses, Curb, Channel C/C: Center to Center CAB: Cabinet CAD: Cadmium, Computer-Aided Drafting CANT: Cantilever CAP: Capacity CAT: Catalog CAV: Cavity CB: Catch Basin CBC: California Building Code CCM: Counter Clockwise CELC: California Electrical Code CEM: Cement CENC: California Energy Code CER: Ceramic CF: Cubic Feet CFL: Counterflashing CFM: Cubic Feet per Minute CFS: Cubic Feet per Second CI: Cast Iron CIP: Cast Iron Pipe, Cast-in-Place CIR: Circle, Circular, Circuit, Circumference CJ: Control Joint CL: Centerline, Clear(ance), Closure, Class, Closet CLG: Ceiling CLKG: Caulking CLR: Clear CLR OPG: Clear Opening CM: Cultured Marble CMC: California Mechanical Code CMU: Concrete Masonry Unit CMUP: Concrete Masonry Unit Painted CND: Condition, Conduit CNDS: Condensate CNTR: Center, Counter COAX: Coaxial CO: Company, Cleanout, Cased Opening, Cut Out COEF: Coefficient COL: Column COMB: Combination, Combustion COMP: Composition, Compressed, Compacted COML: Commercial COMPT: Compartment CONC: Concrete CONCP: Concrete Painted COND: Condenser, Conduit CONN: Connection CONST: Construction CONT: Continuous, Continue, Control CONTR: Contractor CONV: Convector, Convenience CORR: Corridor, Corrugate COV: Cover CPC: California Plumbing Code CPT: Carpet CR: Curtain Rod CRS: Course, Cold Rolled Steel CS: Countersink, Cast Steel, Cast Stone CSG: Casing CSMT: Casement CT: Ceramic Tile CTD: Coated CTR: Center, Counter CTSK: Countersunk CU: Cubic CU FT: Cubic Feet CU YD: Cubic Yard CUR: Current CV: Check Valve CM: Clockwise, Cold Water CY: Cubic Yard, Cycle CYL: Cylinder D: Deep, Depth, Drop, Drain, Dryer DB: Decibel DBL: Double DC: Direct Current DD: Driveway Drain, Deck Drain DEG: Dearee DEMO: Demolish Demolition DEPT: Department DF: Douglas Fir, Drinking Fountai DH: Double Hung DIA: Diameter DIAG: Diagonal DIM: Dimension DISP: Dispenser, Disposal DIV: Division DL: Dead Load DN: Down DO: Door Opening DP: Dampproof(ing DPR: Damper DR: Door DS: Downspout, Disconnect Switch, Door Switch DTL: Detail DN: Dishwasher, Dumbwaite DWG: Drawing DWL: Dowe DWR: Drawer DS: Downspout E: East EA: Each EB: Expansion Bolt ECP: Exterior Cement Plaster EJ: Expansion Joint ELB: Elbow ELEC: Electrical ELEV: Elevator, Elevation EMER: Emergency ENAM: Enamel

EP: Electrical Panelboard EQ: Equal EQUIV: Equivalent EQUIP: Equipment ES: Each Side ESC: Escalator EST: Estimate EN: Each May ENH: Electric Mater Heater EXC: Excavate EXEC: Executive EXH: Exhaust EXIST: Existing EXP: Expansion, Exposed EXT: Exterior, Extinguish(er) F: Degrees Fahrenheit, Fuse, Fluorescent F TO F: Face to Face FA: Fire Alarm, Fresh Air FAB: Fabricate FACP: Fire Alarm Control Panel FAR: Floor Area Ratio FAU: Forced Air Unit FBO: Furnished By Others FC: File Cabinet, Foot Candle, Fault Current FD: Floor drain FDC: Fire Department Connection FDN: Foundation FE: Fire Extinguisher FF: Far Face, Finished Floor, Factory Finish FFE: Finished Floor Elevation FF&E: Fixtures, Furnishings & Equipment FG: Fuel Gas FGL: Fiberglass FGR: Fiberglass Reinforced FH: Flat Head, Fire Hose FHC: Fire Hose Cabinet FIN: Finish, finished FIXT: Fixture FL: Flush FLG: Flooring FLEX: Flexible FLG: Flange, Flashing, Flooring FLR: Floor FLUOR: Fluorescent FLX: Flexible FO: Finished Opening FOC: Face of Concrete FOF: Face of Finish FOM: Face of Masonry FOS: Face of Studs FP: Fireproof FPL: Fireplace FPM: Feet per minute FPRF: Fireproof FPS: Feet per Second FR: Frame, Front, Fire Riser FR DR: French Door(s) FRG: Forged FRM: Frame FRT: Fire Retardant FS: Full Size, Far Side, Fused Switch, Floor Sink FT: Foot Feet Fully Tempered FTG: Footing, Fitting FURN: Furnish, Furniture FURR: Furring FX: Fixed G: Gas, Girder, Gutter, Gram GA: Gauge, Gage GAL: Gallon GALV: Galvanized GAR: Garage GB: Grab Bar, Glass Block GC: General Contractor GD: Guard GEN: General, Generator GFCI: Ground Fault Circuit Interrupted GI: Galvanized Iron GKT: Gasket GL: Glass, Glazing GL BLK: Glass Block GLB: Glue-Lam Beam GOVT: Government GP: Galvanized Pipe GPH: Gallons Per Hour GPM: Gallons Per Minute GPS: Gallons Per Second GR: Grade, Grille, Granite GRND: Ground GT: Girder Truss, Grout GVA: Gate Valve GVL: Gravel GYP: Gypsum GYP BD: Gypsum Board H: High HB: Hose Bib HBD: Hardboard HC: Hollow Core HD: Head, Heavy Duti HDR: Header HDM: Hardware HDND: Hardwood HGR: Hanger HM: Hollow Metal HOR: Horizontal HP: High Point, High Pressure, Horse Power HR: Hour HSG: Housing HT: Height, Heat, High Tension Duct HTG: Heating HTR: Heater H∨AC: Heating, ∨entilating & Air Conditioning HM: Hot Mater, Heavy Mall HMS: Hot Mater Supply HMY: Highway IBC: International Building Code D: Inside Diameter IMC: International Mechanical Code IN: Inch INCAND: Incandescen INCL: Incline, Include(d) INFO: Information INS: Insulate, Insulation INSP: Inspect INSTL: Install INT: Interior, Internal INV: Invert IPC: International Plumbing Code IRC: International Residential Code J-BOX: Junction Box JAN: Janitor JC: Janitor's Closet JCT: Junction JF: Joint Filler JST: Joist JT: Joint KIT: Kitchen KO: Knockout KP: Kickplate KS: Kitchen Sink L: Angle, Left, Length, Long, Line LA: Landscape Architect LAB: Laboratory, Labor LAM: Laminate, Laminated LAT: Lateral LAV: Lavatory LB: Pound (weight), Lag Bolt LBR: Lumber LH: Left Hand LIN: Linear, Linen LIQ: Liquid LKR: Locker LL: Live Load LP: Low Point, Low Pressure, Lighting Panel LPS: Low Pressure Sodium LT: Light, Laundry Tray LTG: Lighting LTL: Lintel LV: Low Voltage LVR: Louver LM: Light Meight LWC: Light Weight Concrete M: Meter, Motor, Bending Moment MAINT: Maintenance MAN: Manual MAS: Masonry MAT: Material MB: Mail Box, Machine Bolt, Mop Basin MC: Medicine Cabinet, Mineral Core ME: Mechanical Engineer MECH: Mechanical MED: Medium MEMB: Membrane MET: Metal MEZZ: Mezzanine MFR: Manufacture, Manufacturer MI: Malleable Iron, Miles MIN: Minimum MISC: Miscellaneous MLDG: Molding MM: Millimeter MO: Masonry Opening MONO: Monolithia MRD: Metal Roof Deck MTD: Mounted MTL: Material, Metal MTR: Motor MULT: Multiple N: North, Nitrogen NAT: Natural NEC: National Electrical Code NF: Near Face NI: Nickel NIC: Not In Contract NO: Number, Normally Open NOM: Nominal NR: Noise Reduction NRC: Noise Reduction Coefficient NS: Near Side NTS: Not To Scale 0/: Over 0 TO 0: Out to Out OA: Outside Air, Overall

OBL: Oblique OBS: Obscure OC: On Center OD: Outside Diameter OF: Outside Face OFF: Office OH: Overhead, Overhang OHD: Overhead Door OI: Ornamental Iron OP: Opaque OPNG: Opening OPP: Opposite OPP H: Opposite Hand OR: Outside Radius ORN: Ornamental OVFL: Overflow OZ: Ounce P. Pitch Pole PA: Public Address PAR: Parallel, Parapet PART: Particle PARTN: Partition PASS: Passage, Passenger PB: Pull Box, Push Button, Panic Bar PC: Pull Chain, Piece, Precast Concrete PCF: Pounds per cubic foot MT: Weight, Water Table, Waterti PED: Pedestal, Pedestrian PERF: Perforate(d), Performance PERIM: Perimeter PERP: Perpendicular PFN: Prefinished PG: Pressure Gauge PH: Phase, Preheat, Phone PIV: Pivoted, Post Indicator Valve PKG: Parking PL: Plate, Property Line, Plastic Laminate PLAS: Plaster, Plastic PLAT: Platform PLF: Pounds Per Lineal Foot PLTF: Platform PLUMB: Plumbing PLYMD: Plywood PNL: Panel PNT: Paint POL: Polish, Polished PORT: Portable PR: Pair PRCST: Precast PRE: Prefinished PREFAB: Prefabricated PREP: Prepare, Preparation PRES: Pressure PRI: Primary PRMLD: Premolded PROP: Property PROT: Protection, Protective PRSTR: Prestressed PR∨: Pressure Reducing ∨alve PS: Plumbing Stack PSC: Prestressed Concrete PSF: Pounds per square foot PSI: Pounds per square inch PT: Point, Part, Pressure Treated PTC: Post-Tensioned Concrete PTD: Painted, Paper Towel Dispenser PTDF: Pressure Treated Douglas Fir PV: Paving PVC: Polyvinyl Chloride PVG: Paving PVMT: Pavement PVT: Private PWR: Power QUAL: Quality QT: Quarry Tile, Quart QTR: Quarter QTY: Quantity R: Riser, Radius, Resistance, Relay Panel RA: Return Air RAD: Return Air Duct RAG: Return Air Grille RBR: Rubber(ized) RCP: Reflected Ceiling Plan RD: Roof Drain, Round REBAR: Reinforcing Bar REC: Receiver, Recess(ed) RECEP: Receptacle REF: Refer, Reference, Refrigerator REFL: Reflected, Reflector REG: Register, Regular **REINF:** Reinforcement, or Reinforce REM: Remove REQ: Require, Required RES: Resawn, Resilient RET: Return, Retaining REV: Reverse, Revise, Revision REV DR: Revolving Door RF: Resilient Flooring, Roof RFG: Roofing RG: Rough Grade RGTR: Register RGH: Rough RH: Right Hand, Reheat, Relative Humidity RK: Rake RM: ROOM RO: Rough Opening RON: Right of Way RPM: Revolutions Per Minute RS: Rough Sawn RTR: Route Through Roof RTM: Route Through Wall S: Shelf, South, Sealant, Supply, Sink 525: Surfaced 2 Sides 545: Surfaced 4 Sides S&S: Stained & Sealed S≰V: Stain ∉ ∨arnish SAN: Sanitary SB: Setting Basin, Splash Block SBD: Sound Board SC: Solid Core, Short Circuit, Self Closing, Scale SCD: Seat Cover Dispenser SCH: Schedule SCR: Screen SCUP: Scupper SD: Soap Dispenser, Smoke Detector SEAL: Sealant SEC: Second, Section, Secondary, Secure SECT: Section SEIS: Seismic SERV: Service SF: Square Foot SH: Single Hung SHR: Shower SHT: Sheet SHTHG: Sheathing SHMR: Shower SI: Square Inch SIM: Similar SKL: Skylight SL: Sliding, Slider SLP: Slope, Sloping SLV: Sleeve SND: Sanitary Napkin Dispenser 5/0: Stacked Over SOF: Soffit SP: Soil Pipe, Standpipe, Soundproof, Single Pole SPC: Spacer SPEC: Specification(s) SPLR: Sprinkler SQ: Square SS: Stainless Steel, Service Sink, Slop Sink ST: Straight, Storm Water, Steel STC: Sound Transmission Class STD: Standard STOR: Storage STRUCT: Structural SUPP: Supplementary, Supplement, Support SUPT: Superintendent SUR: Surface SUSP: Suspended, Suspend SM: Switch SMBD: Switchboard SWGR: Switchgear SY: Square Yard SYM: Symmetrical SYS: System T: Tread, Thick T/: Top of T&B: Top and Bottom T\$G: Tongue \$ Groove T&P: Temperature & Pressure Relief ∨alve TAN: Tangent TB: Towel Bar TD: Trench Drain TEL: Telephone TEMP: Temporary, Tempered, Temperature TEN: Tenant TH: Thermostat THRU: Through TOL: Tolerance TPH: Toilet Paper Holder TPTN: Toilet Partition TR: Transom TRANS: Transformer, Translucent TV: Television TYP: Typical UBC: Uniform Building Code UL: Underwriters' Laboratories UMC: Uniform Mechanical Code UNEXC: Unexcavated UNF: Unfinished UNO: Unless Noted Otherwise UON: Unless Otherwise Noted UP: Unpainted UPC: Uniform Plumbing Code UR: Urinal UT: Utility UV: Ultraviolet ∨: ∨olt(age), ∨alve VAR: Varnish, Varies VB: Vapor Barrier, Vinyl Base, Vacuum Breaker VBC: Vinyl Base (Coved) VBS: Vinyl Base (Straight) VCT: Vinyl Composition Tile VENT: Ventilate, Ventilation, Ventilator

VERT: Vertical

| | FIRE NOTES | NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT. | ELE |
|--|---|---|--|
| VEST: Vestibule VIF: Verify In the Field VLT: Vault VOL: Volume | 1. FIRE PROTECTION, INCLUDING FIRE APPARA SUPPLIES FOR FIRE PROTECTION, SHALL BE | TUS ACCESS ROADS AND WATER | 1. ELEC 1.1. II |
| VP: Vapor Proof, Vent Pipe VR: Vapor Retarder, Vacuum Return, Vertical Riser VS: Vent Stack VT: Vinyl Tile | 2. BUILDING UNDERGOING CONSTRUCTION ALT ACCORDANCE WITH CFC CHAPTER 33. WELL | ERATION OR DEMOLITION SHALL BE IN DING, CUTTING, AND OTHER HOT WORK | 1.1.1. 1.1.2. |
| VTR: Vent Through Roof N: Nest, Nidth, Nide, Natt, Naste, Nater, Nasher N/: Nith | 3. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE-EXTINGUISHING SYSTEMS, INCLUDING AU | R FIRE ALARM SYSTEMS; ITOMATIC SPRINKLERS AND WET & DRY | 1.1.3. |
| M/O: Mithout MB: Mood Base MC: Matercloset WD: Mood | FIRE-EXTINGUISHING SYSTEMS AND OTHER FIRE-EXTINGUISHING SYSTEMS; BASEMENT P FIRE-PROTECTION SYSTEMS AND APPURTED TO FIRE AND HAZARD PREVENTION SERVICE | SPECIAL TYPES OF AUTOMATIC IPE INLETS; AND OTHER NANCES THERTO SHALL BE SUBMITTED ES FOR REVIEW AND APPROVAL PRIOR | 1.2. I M A 1.3. T |
| MD: Mindow MF: Mide Flange (structural steel) MGL: Mire-Glass MH: Mater Heater, Mall Hung, Mall Hydrant WI: Mrought Iron | 10 INSTALLATION. (UFC/CFC SEC. 1001.3). COMPLETE PLANS AND SPECIFICATIONS FOI INCLUDING AUTOMATIC SPRINKLER AND STA FIRE EXTINGUISHING SYSTEMS AND RELATED SUBMITTED TO THE LOCAL JURISDICTION FOI | R ALL FIRE EXTINGUISHING SYSTEMS, NDPIPE SYSTEMS AND OTHER SPECIAL 2 APPURTENANCES SHALL BE 2 REVIEW AND APPROVAL PRIOR TO | 2. LIGH LEAS |
| MM: Mire Mesn, Water Meter WP: Waterproof(ing), Weatherproof WPM: Waterproof Membrane WR: Water Resistant/Repellant, Waste Receptacle | INSTALLATION (CFC 901.2). 5. COMPLETE PLANS AND SPECIFICATIONS FOR SUBMITTED TO THE LOCAL JURISDICTION FO | R FIRE ALARM SYSTEMS SHALL BE IR REVIEW AND APPROVAL PRIOR TO | 3. KITC HIGH SENS |
| MR51 F: Meatherstripping MSCT: Mainscot MT: Meight, Mater Table, Matertight MMF: Melded Mire Fabric | 6. FIRE-EXTINGUISHING SYSTEMS SHALL BE INS SEC. 904 AND COMPLY WITH UBC STANDAR | SECTION 907.2.9). TALLED IN ACCORDANCE WITH CBC DS 9-1 AND 9-2. | 4. LIGH SHAL SPAC |
| WMM: Welded Wire Mesh YD: Yard YR: Year | 7. ALL VALVES CONTROLLING THE WATER SUF SYSTEMS AND WATER FLOW SWITCHES ON A ELECTRONICALLY MONITORED WHERE THE N MORE. (UBC/CBC SEC. 1003.3.1) | PLY FOR AUTOMATIC SPRINKLER ALL SPRINKLER SYSTEMS SHALL BE NUMBER OF SPRINKLERS IS 100 OR | 5. OTH MANU 6. OUTI BUILT |
| | 8. FIRE ALARM SYSTEMS SHALL BE IN ACCORD 9. FIRE ALARM SYSTEMS SHALL ACTIVATE A MINIPARED (CRC SECTION 401 F 2 1 2) | DANCE WITH UFC/CFC SEC. 1007. IEANS OF WARNING THE HEARING | CON THES ASTR |
| | 10. AT LEAST ONE FIRE EXTINGUISHER WITH A M PROVIDED OUTSIDE EACH MECHANICAL, ELE | INIMUM RATING OF 4-A-20BC SHALL BE CTRICAL, OR BOILER ROOM. (UFC/CFC | 7. ELEC LESS |
| | 11. FIRE PROTECTION, INCLUDING FIRE APPARA SUPPLIES FOR FIRE PROTECTION, SHALL BE | TUS ACCESS ROADS AND WATER INSTALLED AND MADE SERVICEABLE | 8. THE AND |
| | 12. FIRE HYDRANTS SHALL COMPLY WITH FHPS HYDRANTS. | POLICY F-96-01 FOR ON-SITE | 48" A (CEC |
| | 13. FIRE HYDRANT LOCATIONS SHALL BE IDENT REFLECTIVE MARKER. (UFC/CFC SEC. 901.4 | IFIED BY THE INSTALLATION OF .3). | 10. PRO MET |
| | 14. FIRE HT DRAKT LOCATIONS AND CLASSIFICA ACCORDANCE WITH CFC 906 AND CALIFOR 15. DURING CONSTRUCTION, AT LEAST ONE EXT EACH EL CORDE EXTERNAL | NIA CODE OF REGS. (CCR) TITLE 19. | 11. PRO SECT |
| | EACH FLOOR LEVEL AT EACH STAIRWAY, IN SHEDS, IN LOCATIONS WHERE FLAMMABLE C OR USED, AND WHERE OTHER SPECIAL HAZA 3315.1. | ALL STORAGE AND CONSTRUCTION IR COMBUSTIBLE LIQUIDS ARE STORED IRDS ARE PRESENT PER CFC SECTION | 13. BATH BATH RECE |
| | STORED IN BUILDINGS OR PLACED WITHIN 5 OR COMBUSTIBLE ROOF EAVE LINES UNLESS SPRINKLER SYSTEM OR LOCATED IN A TYPE 10 FT FROM OTHER STRUCTURES. CONTAINE OF NON- OR LIMITED-COMBUSTIBLE MATERI SEPARATED. CFC 304.3. | FT OF COMBUSTIBLE WALLS, OPENINGS, PROTECTED BY AN APPROVED 1 OR IIA STRUCTURE SEPARATED BY RS LARGER THAN 1CU YD SHALL BE ALS OR SIMILARLY PROTECTED OR | 14. THE1 ALLC SOLA 14.1. L |
| | 17. WALL, FLOOR AND CEILING FINISHES AND MA INTERIOR FINISH CLASSIFICATIONS IN CBC TA FLAME PROPAGATION PERFORMANCE CRIT REGS., TITLE 19, DIVISION 1. | TERIALS SHALL NOT EXCEED THE BLE 803.9 AND SHALL MEET THE ERIA OF THE CALIFORNIA CODE OF | 14.2. 1 5 15. ALL RECE |
| | 18. OPEN FLAMES, FIRE, AND BURNING ON THE P SPECIFICALLY PERMITTED BY THE LOCAL JU | REMISES IS PROHIBITED EXCEPT AS IRISDICTION AND CFC 308. | ROO RECE OR A OR C |
| | CONDITION (TITLE 19, SECTION 3.08, 3.21, C | FC 807). | 16. SMO STAI |
| | FIRE SPRINKLER N | OTES | 18. RECI THE |
| | THE SUBMITTAL OF RESIDENTIAL FIRE SPRIN R3 13 OF THE 2016 CALIFORNIA RESIDENTI | KLER PLANS REQUIRED BY SECTION AL CODE OR WHEN REQUIRED BY | ME |
| | SECTION 903 OF THE CALIFORNIA BUILDING TO AVOID DELAYS IN CONSTRUCTION, PLANS SPRINKLER SYSTEM HALL BE SUBMITTED NO PRIOR TO INSTALLATION OR PRIOR TO REQ WHEN THE SUBMITTAL OF FIRE SPRINKLER IS INSPECTION SHALL NOT BE REQUESTED PRIC SPRINKLER PLANS. | CODE HAS BEEN DEFERRED. 5 FOR THE 13R OR NFPA 13D FIRE 7 LESS THAN 30 CALENDAR DAYS UESTING A FOUNDATION INSPECTION DEFERRED. A FRAMING / ROUGH OR TO APPROVAL OF THE FIRE | 1. PLUN SECT 2. LAV |
| | VHFSZ GENERAL N | IOTES | SHOI VALV LAV |
| | 1. VALLEY FLASHING SHALL BE NOT LESS THAN CORROSION- RESISTANT METAL INSTALLED | 0.019 (NO. 26 GALV. SHEET GAGE) OVER A MIN. 48" WIDE UNDERPAYMENT | 5. KITC 6. SHOI 7. EACI |
| | 2. ROOF GUTTERS SHALL BE PROVIDED WITH T ACCUMULATION OF LEAVES AND DEBRIS IN T | CAP SHEET RUNNING THE FULL LENGTH HE MEANS TO PREVENT THE HE GUTTER, ALL ROOF GUTTERS AND | (ASM 8. WALL EXCE |
| | DOWNSPOUTS SHALL BE CONSTRUCTED OF 1 SECTION 705A.4) 3. DRIP EDGE FLASHING USED AT THE FREE EDG | NON-COMBUSTIBLE MATERIALS (CBC | 9. VAC |
| | NON COMBUSTIBLE (CBC SECTION 705A.4.1) 4. TURBINE ATTIC VENTS SHALL BE EQUIPPED T ROTATION ONLY AND SHALL NOT FREE SPIN | O ALLOW ONE-WAY DIRECTION IN BOTH DIRECTIONS (CBC SECTION | SYST APPF 11. INSUL |
| | 5. GLAZING FRAMES MADE OF VINYL MATERIAL METAL REINFORCEMENT IN THE INTERLOCK A | S SHALL HAVE WELDED CORNERS, | 12. DOC ENER |
| | CURRENT EDITION OF ANSI/AAMA/NWWDA 10 (CBC SECTION 706A.2.2.1). 6. CHIMNEYS, FLUES OR STOVEPIPES ATTACHED | 21/1.5.2 STRUCTURAL REQUIREMENTS | 13. ALL REQI TABL |
| | OR OTHER SOLID OR LIQUID FUEL BURNING EC ARRESTOR (CBC SECTION 711A.1). 7. VENT OPENINGS (ATTIC, UNDERFLOOR, COMB | QUIPMENT WITH AN APPROVED SPARK | 14. ALL STAN |
| | BY NONCOMBUSTIBLE, CORROSION RESISTA REQUIREMENTS (CBC SECTION 706A.2 AND 7.A. INDIVIDUAL VENT OPENINGS SHALL NOT E 7.B. THE DIMENSIONS OF THE OPENINGS SHAL NOT EXCEED 1/8". | NT MESH THAT MEETS THE FOLLOWING 106A.4): XCEED 144 SQUARE INCHES. L BE A MINIMUM OF 1/16" AND SHALL | 15. ALL ENER 16. SER ENER |
| | 8. DECORATIVE MATERIALS SHALL BE MAINTAIL (CAL CODE REGS., TIT. 19, SEC. 3.08, 3.21, UF | NED IN A FLAME RETARDANT CONDITION. | 17. SMIM ENER 18. SMO |
| | VENTILATION OPENINGS IN VERTICAL WALLS, OPENINGS SHALL BE LOUVERED AND COVER SECTION 106A.2, OR OTHER APPROVED MA PROTECTIONS. | OR OTHER SIMILAR VENTILATION ED WITH METAL MESH REQUIRED BY CBC TERIAL THAT OFFERS EQUIVALENT | SYST 19. PERI CMC |
| | 10. IGNITION RESISTANT CONSTRUCTION SHALL O 10.1. CRC SECTION R337.4.3 WHEN TESTED IN 723. 10.2. CONSTRUCTION WHICH COMPLIES WITH TH | COMPLY WITH: ACCORDANCE WITH ASTM E84 OR UL HE TEST PROCEDURES SET FORTH IN SFM | 20. BUILI 21. ALLS AGEN |
| | STANDARD 12-7A-5. 10.3. ONE OF THE ALTERNATIVE METHODS PEI 11. ROOF VENT DIMENSIONS OF THE OPENINGS T AND SHALL NOT EXCEED 1/8" AND SHALL BE | R CRC SECTION R337.4.4. HEREIN SHALL BE A MINIMUM OF 1/16" NON COMBUSTABLE (CRC SECTION | 22. CHEN 23. ALL S APPR |
| | R337.7.6.2.2). | | 24. CRO SUPP |
| | CRC GENERAL NO | TES NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT. | INFO 25. MATI DISPI |
| | 1. EXTERIOR DOORS MAY SMING OUTWARD ON THAN 1 1/2 INCHES LOWER THAN THE TOP O DWELLING. (CRC SECTION R3 1 1.3.1). | LY IF THE EXTERIOR LANDING IS NOT MORI F THE THRESHOLD AT SINGLE-FAMILY | E 26. MATE 27. CHLC WATE |
| | 2. STAIRMAY WITHIN DWELLING UNITS IN OCCUPA HEIGHT SHALL BE 7.75", AND THE MINIMUM TR LESS THAN .75" BUT NOT MORE THAN 1.25" S SOLID RISERS WHERE THE TREAD DEPTUIC | NCIES IN GROUP R-2, THE MAXIMUM RISER EAD DEPTH SHALL BE 10". A NOSING NOT HALL BE PROVIDED ON STAIRWAYS WITH .ESS THAN 11" | 28. HVA0 29. MEDI |
| | 3. EAVE PROJECTIONS MUST BE AT LEAST 24" R302.1). | FROM A PROPERTY LINE. (CRC TABLE | 30. MECH LAUN OF FI |
| | OPERABLE WINDOWS SHALL BE LOCATED A VENTS, CHIMNEYS, ETC. (CRC SECTION R303. PENETRATIONS OF FIRE-RESISTIVE WALLS F | MINIMUM OF 10'-0" FROM ANY PLUMBING 5). LOOR-CEILINGS AND ROOF-CEILINGS | 31. ATTIO 909 |
| | SHALL BE PROTECTED AS REQUIRED IN CRC 6. OPENINGS AND PENETRATIONS THROUGH THE DWELLING FROM THE GARAGE SHALL BE IN A THROUGH R302.5.3). | (SECTION R302.4). E WALLS OR CEILINGS SEPARATING THE CCORDANCE WITH CRC SECTION R302.5. | 32. WATI 33. SHOP 1 PRES |
| | 7. OPENINGS BETWEEN THE GARAGE AND RESID WOOD DOORS NOT LESS THAN 1-3/8" IN THI STEEL DOORS NOT LESS THAN 1-3/8" THICK | PENCE SHALL BE EQUIPPED WITH SOLID ICKNESS, SOLID, OR HONEYCOMBED CORE COR 20 MINUTE RATED FIRE DOORS, | AND 34. WATI ACCO |
| | EQUIPPED WITH SELFCLOSING OR AUTO-CLO CRC SECTION 302.5.1. EXCEPTION: WHERE T PROTECTED BY FIRE SPRINKLERS PER R313 PRIVATE GARAGE AND THE RESIDENCE NEED | DING AND SELF-LATCHING DEVICE PER HE RESIDENCE AND PRIVATE GARAGE ARI 3, OTHER DOOR OPENINGS BETWEEN THE 2 ONLY BE SELF-CLOSING AND | E 33. FAU (FURN 34. A TF |
| | 8. THE GARAGE SHALL BE SEPARATED AS REG | WIRED BY TABLE CRC R302.6. | CONF BATH 35. DUCT |
| | APPLIED TO THE GARAGE SIDE. 8.2. FROM HABITABLE ROOMS ABOVE GARA | GE - NOT LESS THAN 5/8" TYPE 'X' | 36. FOR MINIM |

GYPSUM BOARD. 8.3. STRUCTURE SUPPORTING FLOOR / CEILING USED FOR SEPARATION - NOT LESS THAN 1/2" GYPSUM BOARD. 8.4. GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA.

ECTRICAL NOTES NOTE: NOT LISTED AR TO PROJE

CTRIC VEHICLE CHARGING CAPABILITY PER CGBC 4.106.4.1 INSTALL A LISTED J-BOX AND RACEWAY TO ACCOMMODATE 208/240V BRANCH CIRCUIT

- RACEWAY SHALL BE NOT LESS THAN TRADE SIZE 1 (NOMIN DIAMETER) RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUI TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLO
- PROXIMITY TO THE PROPOSED LOCATION OF THE EV CHAR RACEWAY SHALL BE CONTINUOUS AT ENCLOSED, INACCES
- CONCEALED AREAS AND SPACES. THE SERVICE SHALL PANEL SHALL PROVIDE CAPACITY TO INST MIN DEDICATED BRANCH CIRCUIT AND SPACE(S) TO PERMIT INS BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHA A. THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR CHARGING AS "EV CAPABLE".
- B. THE RACEWAY TERMINATION LOCATION AS "EV CAPABL ITING IN BATHROOMS SHALL HAVE ALL HIGH EFFICACY LUMINAI
- ST ONE LUMINAIRE MUST BE CONTROLLED BY A VACANCY SE CHENS: ALL THE INSTALLED WATTAGE OF LUMINAIRES IN KITCH EFFICACY AND SHALL HAVE A MANUAL ON/OFF IN ADDITION
- SOR OR DIMMER. UNDER CABINET LIGHTING SHALL BE SWITCHE TING IN GARAGES, LAUNDRY ROOMS AND UTILITY ROOMS: ALL ALL BE HIGH EFFICACY AND AT LEAST ONE LUMINAIRE IN EACH C
- ACES SHALL BE CONTROLLED BY A VACANCY SENSOR. HER ROOMS: ALL LUMINAIRES SHALL BE HIGH EFFICACY AND SH
- IUAL ON/OFF IN ADDITION TO A VACANCY SENSOR OR DIMME DOOR LIGHTING: ALL LUMINAIRES MOUNTED TO THE BUILDING DINGS ON THE SAME LOT SHALL BE HIGH EFFICACY LUMINAIRE TROLLED BY A MANUAL ON AND OFF SWITCH, AND CONTROL SE AUTOMATIC CONTROL TYPES: PHOTOCONTROL AND A MO RONOMICAL TIME CLOCK, OR ENERGY MANAGEMENT CONTRO
- CTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 A AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LO HER THAN 48" MEASURED FROM THE BOTTOM OF THE OUTLET /EL OF THE FINISHED FLOOR OR WORKING PLATFORM (CEC 40
- TOP OF THE OUTLET BOX FOR SWITCHES USED TO CONTROL OTHER ENVIRONMENTAL CONTROLS SHALL BE LOCATED NO AND NO LOWER THAN 15" TO THE BOTTOM OF THE BOX ABOV SECTION 404.8).
- OVIDE TAMPER-RESISTANT RECEPTACLES IN ALL AREAS SPEC DVIDE WEATHER RESISTANT TYPE FOR RECEPTACLES INSTALI
- LOCATIONS. IVIDE GFCI PROTECTED OUTLETS FOR ALL LOCATIONS DESCR TION 210.8.
- OVIDE ARC-FAULT CIRCUIT INTERRUPTERS FOR ALL OUTLETS CRIBED IN CEC 210.12.
- THROOM CIRCUITING SHALL BE EITHER 1) A 20 AMP CIRCUIT DE THROOM OR 2) AT LEAST ONE 20 AMP CIRCUIT SUPPLYING ONL EPTACLE OUTLETS, PER CA ELEC. CODE. MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED
- OW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREA AR ELECTRIC INSTALLATION. LOCATION. THE RESERVED SPACE SHALL BE POSITIONED AT LOAD) END FROM THE INPUT FEEDER LOCATION OR MAIN CIRC THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS BOLAR ELECTRIC".
- . 120V, 15, AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLET CEPTACLES) INSTALLED IN DWELLING UNIT KITCHENS, FAMILY RO DMS, LIVING ROOM PARLORS, LIBRARIES, DENS, BEDROOMS, S REATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OF AREAS SHALL BE PROTECTED BY A LISTED ARC FAULT CIRCU COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF CUITS. CEC 210.12(A).
- OKE ALARMS SHALL BE INSTALLED ON EACH STORY OF THE D AIRMAY. CRC R314.3.
- OKE ALARMS SHALL BE INSTALLED ON EACH ADDITIONAL STOI LLING NEAR STAIRWAY, NFPA 72 SECTION 29.8.34 (8).
- EPTACLE OUTLETS SHALL BE INSTALLED IN BATHROOMS WITH OUTSIDE EDGE OF EACH BASIN. CEC 210.52(D).

CHANICAL / PLUMBING N DT ALL NOTES LISTED ARE APPLICABLE TO PROJECT.

- IMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE REQU TION 4.303 IN THE CALIFORNIA GREEN BUILDING CODE.
- ATORY FAUCETS IN RESTROOMS OF COMMERCIAL PROJECTS -CLOSING TYPE. WERS AND TUB/SHOWER COMBINATIONS SHALL BE PROVIDED VES (CPC SECTION 420.0).
- VATORY FAUCETS TO EMIT 1.2 GAL/MAX AT 60 PSI (CBC SEC⁻
- CHEN FAUCETS TO EMIT 1.8 GAL/MIN. MAX. AT 60 PSI (CBC SEC WERHEADS TO EMIT 1.8 G.P.M. MAXIMUM AT 80 PSI. (CBC SEC
- CH TOILET SHALL BE THE ULTRA LOW FLUSH TYPE AND NOT EXC ME A 1 1 2.1 9.2/ CSA B 34.1. PER CBC SECTION 4 1 1.2).
- L MOUNTED URINALS SHALL HAVE AN AVERAGE WATER CONS EED 0.125 GPF. OTHER URINALS SHALL HAVE AN AVERAGE WA ISUMPTION NOT TO EXCEED .5 GPF (CBC SECTION 412.0). CUUM BREAKERS SHALL BE PROVIDED AT HOSE BIBS.
- OR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO TH TEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED ROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEA
- JLATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STAT RGY EFFICIENCY STANDARDS SEC. 118. ORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION RE
- RGY EFFICIENCY STANDARDS SEC 116. . PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WI RUIREMENTS OF ENERGY EFFICIENCY STANDARDS SEC. 1118,
- BLE 6-D AS APPLICABLE. HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS NDARDS SEC. 112, 122 AS APPLICABLE.
- L HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIRE RGY EFFICIENCY STANDARDS SEC. 111, 115, 120-129 AS APF
- VICE WATER HEATING SYSTEMS AND EQUIPMENT SHALL COMP RGY EFFICIENCY STANDARDS SEC. 113.
- MMING POOL AND SPA HEATING SYSTEMS AND EQUIPMENT SHA RGY EFFICIENCY STANDARDS SEC. 114.
- OKE DETECTORS SHALL BE PROVIDED AT SUPPLY AIR DUCTS (TEMS EXCEEDING 2000 CFM. PER CMC SEC. 608.
- RMANENT LADDER/ACCESS TO ROOF MOUNTED EQUIPMENT SH SEC. 307.
- DING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WIT. SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AND APP
- MICAL WASTE PIPING SHALL COMPLY WITH CPC SEC. 811.0. STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED PROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNE RMITTENT OPERATION FOR THERMAL EXPANSION CONTROL F
- DSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL P PLIED APPLIANCES AND EQUIPMENT EXCEPT THOSE SPECIFIC RMATION BULLETIN 103.
- TER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST PLACEMENT DUE TO SEISMIC MOTION PER CPC SEC. 510.5.
- ERIALS EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY ORINATED POLYVINYL CHLORIDE (CPVC) SHALL NOT BE USEI
- TER SUPPLY PIPING PER STATE HEALTH & SAFETY CODE SEC. AC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH CMC
- DIUM PRESSURE GAS PIPING SHALL BE LABELED EVERY FIVE F
- HANICAL VENTILATION WHEN REQUIRED IN RESIDENTIAL BAT NDRY ROOMS AS APPLICABLE PER CBC SEC. 1203.3 SHALL FIVE AIR CHANGES PER HOUR AND BE ROUTED TO THE EXTERI C/UNDERFLOOR INSTALLATION MUST COMPLY WITH SECTIONS
- 1 OF THE CALIFORNIA MECHANICAL CODE (CMC).
- TER HEATER FLUES SHALL COMPLY WITH CPC. WERS AND TUB/SHOWER COMBINATIONS, SHALL BE PROVIDED TROL VALVES OF THE PRESSURE BALANCE. THERMOSTATIC SSURE BALANCE/ THERMOSTATIC MIXING VALVE TYPE THAT THERMAL SHOCK PROTECTION PER CPC.
- ER HEATER(S)/BOILER(S) TO BE STRAPPED IN SEISMIC ZONES ORDANCE WITH CPC.
- CLOSET OR ALCOVE MUST BE 12 INCHES WIDER THAN THE FUR NACES BEING INSTALLED PER CMC. MPERATURE LIMITING DEVICE SHALL BE PROVIDED AT SOAKIN FORMANCE WITH THE CPC SECTION 414.5 LIMITATION OF HOT
- HTUBS AND WHIRLPOOL BATHTUBS. INSULATION SHALL BE R-8 IN ACCORDANCE WITH THE CF-1R
- THE AC CONDENSER, A WORKING SPACE OF 30" MINIMUM WID MUM DEPTH IS REQUIRED IN FRONT OF DISCONNECT PER CEC

| T ALL NOTES RE APPLICABLE ECT. | GENERAL NOTES | NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT. | GENERAL NOTES (CONT'D) |
|--|---|---|---|
| ‡ 4.106.4.1.1. AT DEDICATED | 1. THIS PROJECT SHALL COMPLY WITH THE CBOGFC, CM ENERGY CODE | C, CPC, CA ELEC. CODE, AND CA | 53. FOR VENT TERMINATION AT EXTERIOR WALLS - REFER TO DETAIL: |
| NAL 1-IN. BPANEL AND | 2. IT WILL BE THE RESPONSIBILITY OF THE OWNER/BUIL INTERIOR AND EXTERIOR HAND RAIL AND GUARD RA AND INSTALLATION SHALL BE REVIEWED AND OFFIC A QUAL FEED LICENSED STRUCTURAL ENGINEER PRIO | DER TO ENSURE THAT ALL ALL FABRICATION, CONSTRUCTION IALLY APPROVED IN WRITING BY | (AD-11) |
| SIBLE OR | INSTALLATION. 3. AN APPLICATION FOR OFF-SITE FABRICATION MUST INSPECTION SERVICES DIVISION FOR APPROVAL PR | BE SUBMITTED TO THE IOR TO FABRICATION. | 54. FOR PENETRATIONS OF SLAB AND EXTERIOR WALLS REFER TO DETA |
| ISTALLATION OF L IDENTIFY: R FUTURE EV | 4. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FAB AND SUBMITTED TO THE INSPECTION SERVICES DIVIS PREFABRICATED COMPONENTS. | RICATION MUST BE COMPLETED SION PRIOR TO ERECTION OF | AD-11 AD-11 AD-11 AD-11 AD-11 |
| LE". | 5. ALL REQUIRED PERMITS AND APPROVALS MUST BE PREVENTION AGENCY PRIOR TO BUILDING OCCUPAN | OBTAINED FROM THE LOCAL FIRE CY. | |
| ENSOR. ENS SHALL BE TO A VACANCY ED SEPARATELY | 6. AN ELECTRONICALLY SIGNED AND REGISTERED INST (CF-2R) POSTED BY THE INSTALLING CONTRACTOR FIELD INSPECTOR DURING CONSTRUCTION AT THE BI CF-2R WILL HAVE A UNIQUE 21-DIGIT REGISTRATION ZEROS LOCATED AT THE BOTTOM OF EACH PAGE. T | ALLATION CERTIFICATE(S) SHALL BE SUBMITTED TO THE JILDING SITE. A REGISTERED NUMBER FOLLOWED BY FOUR THE FIRST 12 DIGITS OF THE | 56. FOR ALL NEW RESIDENTIAL CONSTRUCTION WHERE LANDSCAPE IRRIG PLANNED A WATER BUDGET SHALL BE DEVELOPED THAT CONFORMS LANDSCAPE ORDINANCE OR THE CALIFORNIA DEPARTMENT OF WATE |
| L LUMINAIRES OF THESE | NUMBER WILL MATCH THE REGISTRATION NUMBER OF CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UT AND APPROVED. | THE ASSOCIATED CF-1R. NTIL FORMS CF-2R IS REVIEWED | MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICH E STRINGENT. TO VIEW MWELO: http://www.water.ca.gov/wateruseefficiency/docs/MWELO_TbContent_I FOR THE LOCAL LANDSCAPE ORDINANCE CHECK WITH CITY/COUNTY |
| HALL HAVE A R. | AN ELECTRONICALLY SIGNED AND REGISTERED CER VERIFICATION AND DIAGNOSTIC TESTING (CF-3R) SH SITE BY A CERTIFIED HERS RATER. A REGISTERED C 25-DIGIT REGISTRATION NUMBER LOCATED AT THE ELECT 20 DIGITS OF THE NUMBER WILL MATCH THE P. | RTIFICATE(S) OF FIELD IALL BE POSTED AT THE BUILDING F-3R MILL HAVE A UNIQUE BOTTOM OF EACH PAGE. THE | 57. STAIRMAY RISER MUST BE 4" MINIMUM AND 7" MAXIMUM AND MINIMUM F PER CBC SECTION 1011.5.2. 57.A. STAIRMAY WITHIN DWELLING UNITS IN OCCUPANCIES IN GROUP R-2. |
| S AND MUST BE LED BY ONE OF TION SENSOR, OR DL SYSTEM | ASSOCIATED CF-2R. CERTIFICATE OF OCCUPANCY CF-3R IS REVIEWED AND APPROVED. 8. CONTRACTOR SHALL VERIFY THE LOCATION OF TRA | ANSFORMERS AND | RISER HEIGHT SHALL BE 7.75", AND THE MINIMUM TREAD DEPTH SH NOSING NOT LESS THAN .75" BUT NOT MORE THAN 1.25" SHALL BE STAIRWAYS WITH SOLID RISERS WHERE THE TREAD DEPTH IS LESS |
| AMPERES OR CATED NO | UNDERGROUND UTILITIES WITH APPLICABLE UTILITY C 9. ALL DIMENSIONS SHOWN SHALL TAKE PRECEDENCE DIMENSIONS ARE TO FACE OF STUD, SLAB, OR MASC DO NOT SCALE DRAWINGS | OMPANIES. OVER SCALE OF DRAMINGS. DNRY UNLESS NOTED OTHERWISE. | 58. ENCLOSED FRAMING IN WOOD EXTERIOR BALCONIES AND DECKS SH PROVIDED WITH OPENINGS THAT PROVIDE A NET FREE CROSS VENTIL LESS THAN 1/150 OF THE AREA OF EACH SEPARATE SPACE (CBC SE 2304.12.2.6, AS AMENDED BY THE EMERGENCY BUILDING STANDARD |
| DOX TO THE 06.3). THERMOSTATS DHIGHER THAN | 10. IF A CONFLICT OR AMBIGUITY OCCURS BETWEEN THE THESE PLANS, THE SUBCONTRACT AGREEMENT OR A CODES, THE MORE STRINGENT AND/OR INCLUSIVE, A | E DESCRIPTION OF WORK ON ANY APPLICABLE BUILDING IS DETERMINED BY BUILDER, | 59. WOOD BALCONIES AND DECKS THAT SUPPORT MOISTURE-PERMEABL BE PROVIDED WITH AN IMPERVIOUS MOISTURE BARRIER SYSTEM UND MOISTURE-PERMEABLE FLOOR, WITH POSITIVE DRAINAGE (CBC SECTI AS AMENDED BY EMERGENCY BUILDING STANDARDS). |
| VE THE FLOOR CIFIED IN CEC. | SHALL APPLY. 1 1. NEW AND EXISTING BUILDINGS SHALL HAVE APPROV NUMBERS, OR APPROVED BUILDING IDENTIFICATION PLAINLY LEGIBLE AND VISIBLE FROM THE STREET O | ED ADDRESS NUMBERS, BUILDING PLACED IN A POSITION THAT IS R ROAD FRONTING THE | 60. ACCESSIBLE ROUTES OF TRAVEL SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE P LOADING ZONES, AND PUBLIC STREETS OR SIDEMALKS TO THE ACCES ENTRANCE THEY SERVE. THE ACCESSIBLE ROUTE SHALL TO THE EXTE |
| LED IN DAMP OR RIBED IN CEC | PROPERTY. THESE NUMBERS SHALL CONTRAST IN C NUMBERS SHALL BE A MINIMUM OF 4" HIGH WITH A MIN SECTION 505.1 FHPS P-00-6). | OLOR TO BACKGROUND. . STROKE WIDTH Ờ≢(CFC | 61. ACCESSIBLE PARKING STALLS SHALL BE IDENTIFIED BY A SIGN, COMP SECTION 1 109A.8.8. |
| N ROOMS | 12. FIRE STOPS SHALL BE LOCATED AT THE FOLLOWING A. IN CONCEALED SPACES OF STUD WALLS AND PAR SPACES AT THE CEILING AND FLOOR LEVELS AND A VERTICAL AND HORIZONTAL. | DECATIONS PER CBC: TITIONS, INCLUDING FURRED T 10 FOOT INTERVALS BOTH | 61.A. AN ADDITIONAL SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT E BY 22" IN SIZE WITH LETTERING NOT LESS THAN 1" IN HEIGHT, WHICH FOLLOWING" |
| EDICATED TO EA. LY BATHROOM | B. AT ALL INTERCONNECTIONS BETWEEN CONCEALE SPACES SUCH AS, AT SOFFIT, DROP CEILINGS AND C C. IN CONCEALED SPACES BETWEEN STAIR STRINGE THE RUN AND BETWEEN STUDS ALONG AND INLINE WI WALLS UNDER THE STAIRS ARE UNFINISHED. | OVE CEILINGS. RS AT THE TOP AND BOTTOM OF TH THE RUN OF STAIRS IF THE | "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED HANDICAPPED DISPLAYING DISTINGUISHED PLACARDS OR LICENSE PLATES ISSUED F DISABLED PERSONS MAY BE TOWED AWAY AT OWNER'S EXPENSE. TO MAY BE RECLAIMED AT OR BY TELEPHONING" (CBC SECT |
| D SPACE TO AKER FOR FUTURE THE OPPOSITE | D. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMN OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT NONCOMBUSTIBLE MATERIALS. E. AT OPENINGS BETWEEN ATTIC SPACE AND CHIMNE | EYS, FIREPLACES, AND SIMILAR CEILING AND FLOOR LEVELS, WITH Y CHASES FOR FACTORY-BUILT | 62. GLAZING IN FIXED AND OPERABLE PANELS OF DOOR ASSEMBLIES SH SAFETY GLAZING MATERIALS IN ACCORDANCE WITH CBC SECTION 24 |
| CUIT LOCATION. | CHIMNEYS IN ACCORDANCE WITH UL 103 AND UL 12 13. ALL EXITS SHALL BE OPERABLE FROM THE INSIDE W OTHER SPECIAL KNOWLEDGE. | 7. ITHOUT THE USE OF KEY OR | 64. PARKING GARAGES SHALL HAVE UNOBSTRUCTED HEADROOM CLEAR LESS THAN 7'-O" ABOVE THE FINISH FLOOR TO ANY CEILING, BEAM, PIF CONSTRUCTION PER CBC SECTION 406.4.1 |
| OOMS, DINING AND OOMS, DINING SUNROOMS, SIMILAR ROOMS UT INTERRUPTER | 14. INTERIOR FINISHES SHALL CONFORM TO THE REQUIR LOCAL ORDINANCES. 15. ALL INTERIOR WALLS SHALL RECEIVE BULLNOSE CO | EMENTS OF THE CBC AND ALL RNER BEAD TYPICAL EXCEPT AT | 65. ALL ENTRY DOORS TO THE HOUSE SHALL BE SELF LATCHING. 66. ACCESSIBLE SWITCHES, OUTLETS, AND CONTROLS SHALL COMPLY WI |
| THE BRANCH | MINDOMS. 16. CONTRACTOR TO PROVIDE COVER OVER MOOD FF BATHTUB AND SHOWER ENCLOSURE. TILE MUST BE A IS NOT ADVERSELY FEEECTED BY MOISTURE. SEE IN | RAMING WITH #15 FELT IN ATTACHED TO A BACKING WHICH ITERIOR FLEVATIONS FOR HEIGHT | 67. LIGHTING INSTALLED IN CORRIDORS AND STAIRMELLS SHALL BE CON OCCUPANT SENSORS THAT REDUCE THE LIGHTING POMER IN EACH SP, 50%. THE OCCUPANT SENSORS SHALL BE CAPABLE OF TURNING THE L |
| DRY OF THE | OF TILE SURROUNDS AT SHOMER/TUB AREAS. 17. PROVIDE 30 INCHES CLEAR WIDTH FOR WATER CLO INCHES CLEARANCE IN FRONT OF WATER CLOSETS F | SET COMPARTMENTS AND 24 PER CBC. | OFF FROM ALL DESIGNED PATHS OF INGRESS AND EGRESS. 68. DOORS OTHER THAN THE HOISTWAY DOOR AND THE ELEVATOR CAR PROHIBITED AT THE POINT OF ACCESS TO ELEVATOR CAR, EXCEPT D |
| HIN 3 FEET OF | 18. PERMANENT VACUUM BREAKERS SHALL BE INCLUDE 19. THE DISCHARGE POINT FOR EXHAUST AIR WILL BE AT CODE) FROM ANY OPENING INTO THE BUILDING PER (| D WITH ALL HOSE BIBS. T LEAST 3'-6" (3'-0" MIN. PER | 69. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL I INSTALLED, WALLS AND FRAMING SHALL NOT BE ENCLOSED WHEN TH |
| NOTES | 20. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A TO PROTECT THE INTERIOR WALL COVERING AND EX FLASHED IN SUCH A MANNER AS TO MAKE THEM WEA | WEATHER-RESISTIVE BARRIER XTERIOR OPENINGS SHALL BE THERPROOF PER CBC. | MEMBERS EXCEED 19% MOISTURE CONTENT. INSULATION PRODUCTS VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-AP SHALL FOLLOW MANUFACTURES DRYING RECOMMENDATIONS PRIOR |
| UIREMENTS IN | 21. APPROVED SPARK ARRESTERS SHALL BE INSTALL 22. NEW WATER CLOSETS AND ASSOCIATED FLUSHOME NO MORE THAN 1.28 GALLONS PER FLUSH AND SHAI | ED ON ALL CHIMNEYS PER CBC. TER VALVES, IF ANY, SHALL USE LL MEET PERFORMANCE | 70. AN A.I.T.C. CERTIFICATE OF COMPLIANCE FOR GLUED LAMINATED WOO SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATIO 82. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND |
| S SHALL BE THE | STANDARDS ESTABLISHED BY THE AMERICAN NATION STANDARD A 1 1 2.19.2, AND URINALS AND ASSOCIAT ANY, SHALL USE NO MORE THAN 0.5 GALLON PER FL PERFORMANCE STANDARDS ESTABLISHED BY THE STANDARDS INSTITUTE A 1 12.19.2 H # 5 CODE SECT | DNAL STANDARDS INSTITUTE TED FLUSHOMETER VALVES, IF USH AND SHALL MEET AMERICAN NATIONAL | ACCESS 10 ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, API ETC.) OR TO THE LOCATION OF THE HOOKUP. THE CONSTRUCTION SHA TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOU PROPERTY FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAY |
| D WITH MIXING FION 407.2.1). | 23. ALL NEW GLAZING WILL BE INSTALLED WITH A CERTIN SHOWING 1) THE U-VALUE, 2) CERTIFICATION BY THE W/ENERGY CALCULATIONS. | FYING LABEL ATTACHED, NFRC, AND COMPLIANCE | ADDITIONAL EXPENSES. 83. SHOWER COMPARTMENTS AND WALLS ABOVE BATHTUBS WITH INSTA HEADS SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT SURFAC |
| CTION 420.2). TION 408.2). | 24. SURFACE WATER SHALL DRAIN AWAY FROM BUILDIN 25. AN A.I.T.C. CERTIFICATE OF COMPLIANCE FOR GLUE | IGS. AMINATED WOOD MEMBERS | LESS THAN 72 INCHES ABOVE THE DRAIN INLET (SECTION 1210.2.3). UMATER-RESISTANT GYPSUM BACKING BOARD SHALL BE AS STATED I 2509.3. |
| CEED 1.28 GPF SUMPTION NOT TO | 26. RESIDENTIAL GAS APPLIANCES ARE REQUIRED TO E COMBUSTION STYLE - CALGREEN 4.503.1. | BE OF THE DIRECT-VENT SEALED | SUCH AS PORTLAND CEMENT, CERAMIC TILE OR OTHER APPROVED M EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 INCHES (1210.2.1). 85. CEMENT, FIBER-CEMENT, OR GLASS MAT GYPSUM BAKERS IN COMPLI |
| ATER | 27. PROVIDE ADDITIONAL REINFORCING TO CONTROL O ALL WINDOWS, DOORS AND RE-ENTRANT CORNERS 28. DUCTLESS FANS CANNOT BE USED IN BATHROOMS IN DEP CRC | CRACKING AT THE CORNERS OF TYPICAL. F A TUB OR SHOWER IS PRESENT | C1178, C1288 OR C1325 SHALL BE USED AS A BASE FOR WALL TIL SHOWER AREAS AND WALL AND CEILING PANELS IN SHOWER AREAS. WATER-RESISTANCE GYPSUM BACKING BOARD SHALL BE USED AS A WATER CLOSET COMPARTMENT WALLS WHEN INSTALLED IN ACCORD CA 216 OB ASTM CRAD RECUM AR CYPSUM WALL BOARD IS REPAILT |
| IE DRAINAGE WITH AN ALS. | 29. GAS VENTS AND NONCOMBUSTIBLE PIPING IN WALLS FLOORS OR LESS, SHALL BE EFFECTIVELY DRAFT S CEILING PER CBC. | , PASSING THROUGH THREE TOPPED AT EACH FLOOR OR | OR WALL PANELS IN OTHER WALL AND CEILING AREAS WHEN INSTALLI ACCORDANCE GA-216 OR ASTM C840. WATER-RESISTANT GYPSUM NOT BE USED IN THE FOLLOWING LOCATIONS: CBC SECTION 2509.2. |
| ANDARDS PER EQUIREMENTS PER | 30. EXTERIOR DOORS MAY NOT SWING OUTWARD WHEN DROP PER CBC. 31. STRUCTURAL MEMBERS SUPPORTING AN OCCUPANC | THERE IS GREATER THAN A 1" | 86. IN R1 AND R2 OCCUPANCIES, WHERE THE TOP OF THE SILL OF AN OPE OPENING IS LOCATED LESS THAN 36" ABOVE THE FINISHED FLOOR AN INCHES ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON OF THE BUILDING, SHALL COMPLY WITH CBC SECTION 1013.8. |
| ITH THE 123, 124 AND CMC | SAME FIRE-RESISTIVE RATING AS THE SEPARATION. | TO BE TEMPERED. | 87. WOOD, HARDBOARD, AND WOOD STRUCTURAL PANEL SIDING SHALL I ACCORDANCE WITH CBC CHAPTER 23 AND TABLE 1405.2. BASIC HA CONFORM TO THE REQUIREMENTS OF AHA A 135.4. HARDBOARD SIDI CONFORM TO THE REQUIREMENTS OF AHA A 135.6 AND, WHERE USED |
| OF ENERGY | 33. ALL ELECTRICAL SERVICE SHALL BE UNDERGROUND 34. ALL CONDENSATE LINES MUST DISCHARGE IN A PLUN | 2. 18ING FIXTURE. | SHALL BE SO IDENTIFIED BY THE LABEL OF THE APPROVED AGENCY 88. HORIZONTAL LAP SIDING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE THERE ARE NO MANUF |
| PPLICABLE. | 36. THE RETURN AIR PLENUM SERVING THE MECHANICAL DUCTED FROM THE EQUIPMENT TO THE CONDITIONET | EQUIPMENT MUST BE FULLY SPACE. DROP CEILINGS. WALL | RECOMMENDATIONS, FIBER-CEMENT LAP SIDING HAVING A MAXIMUM / INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186, TY GRADE II (OR ISO 8336, CATEGORY A, MINIMUM CLASS 2). LAP SIDING LAPPED A MINIMUM OF 1 1/4 INCHES AND LAP SIDING NOT HAVING TONGUE-AND-GROOVE FND . IDINTS SHALL HAVE THE ENDERPORTECT |
| | CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE 37. RESCUE OR ESCAPE WINDOWS FROM BEDROOMS S | USED AS PLENUMS. HALL COMPLY WITH CBC. | CAULKING, COVERED WITH AND H-SECTION JOINT COVER, LOCATED O FLASHING OR SHALL BE OTHERWISE DESIGNED TO COMPLY WITH CBC LAP SIDING COURSES SHALL BE INSTALLED WITH THE FASTENER HEAD CONCEALED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S |
| HALL COMPLY WITH | 39. BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEV PLACED OVER EMERGENCY ESCAPE AND RESCUE C | ICES ARE PERMITTED TO BE IPENINGS, BULKHEAD | (CBC 1405.16.2) 89. A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT, COMPLYING WITH TYPE 1 FELT OR OTHER APPROVED MATERIALS, SHALL BE ATTACHED OR SHEATHING WITH FLASHING AS DESCRIBED IN CRASES (CTION 1107) |
| TH CPC SEC. 701.0. PROVED LISTING | ENCLOSURES, OR WINDOW WELLS THAT SERVE SUCH MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH SE R3 10.1.3, AND SUCH DEVICES SHALL BE RELEASABI INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL K | OPENINGS, PROVIDED THE ECTIONS R3 10.1.1 TO LE OR REMOVABLE FROM THE NOWLEDGE OR FORCE | MANNER AS TO PROVIDE A CONTINUOUS WATER RESISTIVE BARRIER EXTERIOR WALL. 90. DUCTS IN A PRIVATE GARAGE AND DUCTS PENETRATING THE WALLS CONTINUES |
| MITH AN | AND RESCUE OPENING. THE RELEASE MECHANISM SH AT ALL TIMES. SUCH BARS, GRILLES, GRATES OR AN EQUIPPED WITH AN APPROVED EXTERIOR RELEASE DEPARTMENT ONLY WHEN REQUIRED BY THE AUTHO | ALL BE MAINTAINED OPERABLE Y SIMILAR DEVICES SHALL BE DEVICE FOR USE BY THE FIRE RITY HAVING JURISDICTION. | SEMAKATING THE DWELLING UNIT FROM THE GARAGE SHALL BE CONS MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL HAVE NO OPENINGS INTO THE GARAGE. 9.1. NEW OR REPLACEMENT GARAGES SHALL HAVE RATTERY BACK-UP IN |
| ED FOR PER CPC SEC. POTABLE WATER | 40. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED WITH THE MOST RESTRICTIVE OF LOCAL REGULATIO IN THE ASHRAM HANDBOOK OF FUNDAMENTALS, OR | D, AND TESTED IN ACCORDANCE NS, THE PROCEDURES DETAILED THE APPLICABLE STANDARDS | ANY GARAGE DOOR OPENERS (SB969). 92. WINDOW AND SLIDING GLASS DOORS WOULD BE MOUNTED IN LOW AIR RATE FRAMES (0.5 CUBIC FEET PER MINUTE OR LESS, PER ANSI SPECIF |
| THORIZONTAL | 4 1. WHEN STUGGO IS APPLIED OVER WOOD BASED SHEA BARRIER SHALL BE APPLIED OVER THE WOOD BASE WATER-RESISTIVE VAPOR-PERMEABLE BARRIER A | THING A WATER RESISTIVE ED SHEATHING CONSISTING OF A T LEAST EQUIVALENT TO TWO | 93. EXTERIOR DOORS WOULD HAVE A SOLID CORE WITH PERIMETER WEA AND THRESHOLD SEALS WITH A SOUND TRANSMISSION CLASS (STC) R AT LEAST 3 1, WITH THE POTENTIAL FOR STC RATING OF 36 OR HIGHE |
| WITH CMC 601.1.3. | LAYERS OF GRADE D PAPER (CBC 2510.6). 42. IN SLEEPING ROOMS THE MINIMUM NET CLEAR MINDO ESCAPE AND RESCUE GRADE-FLOOR OPENINGS SHA | W OPENING FOR EMERGENCY ALL BE 5.7 SQ. FT. THE MINIMUM | 94. EXTERIOR WALLS WOULD INCLUDE MINIMUM OF 5/8-INCH OF STUCCO VENEER OVER A MINIMUM 1/2-INCH PLYWOOD OR OSB SHEAR PANEL R 1 1 INSULATION AND IN |
| 7921.9. C CHAP. 3. | SHALL BE THE RESULT OF NORMAL OPERATION OF T | CBC 1102A.2.1). | |
| EET. IROOMS AND PROVIDE A MINIMUM OR | 44. KITCHENS REQUIRE EXHAUST FANS WITH A MINIMUM 1 EXTERIOR. 45. PROVIDE MINIMUM 50 CF/MIN. EXHAUST FOR INTERMINE CE/MIN EXHAUST FOR INTERMINE | OO CFM DUCTED TO THE | |
| 5 904, 908, AND | CF7MIN. EXHAUST FOR CONTINUOUS VENTILATION AT 46. ALL FANS INSTALLED MUST BE SPECIFIED AT A NOISE (CONTINUOUS USE) OR 3 SONE (INTERMITTENT USE). | DATH AND LAUNDRY ROOMS. ERATING OF A MAXIMUM 1 SONE | |
| D WITH INDIVIDUAL OR COMBINATION PROVIDE SCALD | 47. RESIDENTIAL BATHROOM EXHAUST FANS SHALL BE I BE CONTROLLED BY A HUMIDISTAT CAPABLE OF AN AND 80% HUMIDITY (CALGREEN 4.506.1). EXCEPTIOI NOT REQUIRED IF THE BATHROOM EXHAUST FAN IS A HOUSE VENTILATION. | ENERGY STAR RATED AND SHALL ADJUSTMENT BETWEEN 50% N: CONTROL BY A HUMIDISTAT IS ILSO THE DWELLING WHOLE | |
| S 3 AND 4 IN | 48. WALL AND FLOOR/CEILING ASSEMBLIES SEPARATIN OTHER AND FROM COMMON SPACE (SUCH AS CORR COMMON GARAGES, SERVICE AREAS, ETC.) MUST HA (AND IIC OF 50 FOR FLOORS) (CRC SECTION (1007) | G DWELLING UNITS FROM EACH IDORS, LAUNDRY ROOMS, VE A LISTED RATING OF STC 50 | |
| IRNACE OR | (AND IND OF DUF OK FLOORD) (CBC SECTION 1207). 49. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-C SHALL BE PROTECTED AS REQUIRED BY CBC. | EILINGS AND ROOF-CEILINGS | |
| R REPORT. | 50. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-C SHALL BE PROTECTED AS REQUIRED IN IBC SECTION 51. PENETRATIONS INTO OR THROUGH AN EXIT ENCLOSU | EILINGS AND ROOF-CEILINGS | |
| TH AND 36" 1 10.26A. | 52. RECYCLE AND/OR SALVAGE FOR RELIGE A MINIMUM | OF 65% OF THE NON-HAZABOOUL | |
| | CONSTRUCTION AND DEMOLITION WASTE IN ACCORT | DANCE WITH CALIFORNIA GREEN | |

BUILDING STANDARDS CODE, CHAPTER 4, DIVISION 4.4.







AREA ANALYSIS





| OFFICE AND COVERED EXERCISE AREA | 11/29/2022 |
|----------------------------------|--------------|
| OFFICE/CONFERENCE RM./ SUPPORT | 1164.67 S.F. |
| COVERED PATIO | 380.83 S.F. |
| COVERED YOGA AREA | 750.00 S.F. |
| TOTAL COVERED AREA | 2295.50 S.F. |

| RESTROOM / POOL STORAGE BUILDING | |
|----------------------------------|--------------|
| RESTROOM | 724.52 S.F. |
| POOL EQUIPMENT ROOM | 647.06 S.F. |
| STORAGE | 308.82 S.F. |
| COVERED SHOWER AREAS | 132.90 S.F. |
| UTILITY CLOSET | 60.38 S.F. |
| TOTAL FLOOR AREA | 1680.40 S.F. |

| TRASH ENCLOSURE | |
|-------------------------|---------------|
| COVERED TRASH ENCLOSURE | 192.83 S.F. |
| | |
| G.F.A. | 3038.35 S.F. |
| LOT AREA | 65920.00 S.F. |
| F.A.R. | 4.61% |



CODE ANALYSIS

COTA VERA SWIM CLUB CODE ANALYSIS PROJECT NO.: 2022014 CODE: 2022 CBC

1. OCCUPANCY TYPE:

- a. Rec Bldg + Covered Exercise = A3
- b. Restroom / Pool Equipment Bldg = A3
- c. Covered Trash Enclosure = A3
- 2. TYPE OF CONSTRUCTION: VB (non-rated)
- 3. ALLOWABLE AREA: A3 = 6000 SF PER FLOOR
- 4. ACTUAL AREA:
 - a. Rec Bldg + Covered Exercise = 2295 SF (COMPLIES)
 - b. Restroom / Pool Equipment Bldg = 1741 SF (COMPLIES)
 - c. Covered Trash Enclosure = 193 SF (COMPLIES)
- 5. FIRE SPRINKLERS:
 - a. Rec Bldg + Covered Exercise = none
 - b. Restroom / Pool Equipment Bldg = none
 - c. Covered Trash Enclosure = none
- 6. ALLOWABLE STORIES: A3 = 1
- 7. ACTUAL STORIES:
 - a. Rec Bldg + Covered Exercise = 1 (COMPLIES)
 - b. Restroom / Pool Equipment Bldg = 1 (COMPLIES)
 - c. Covered Trash Enclosure = 1 (COMPLIES)
- 8. ALLOWABLE HEIGHT: A3 = 40 FT
- 9. ACTUAL HEIGHT:
 - a. Rec Bldg + Covered Exercise = 25'-6" FT (COMPLIES)
 - b. Restroom / Pool Equipment Bldg = 28'-0" FT (COMPLIES)
 - c. Covered Trash Enclosure = 12'-0" FT (COMPLIES)
- **10. FIRE SEPARATION DISTANCE:**
 - a. For non-rated construction, it is required that there be 10'-0" from building wall to real or imaginary property line. Therefore, if 20'-0" separation between buildings is NOT provided, then at least one wall of a structure will need a 1 hour fire rating.

11.ACCESSIBILITY:

 All structures and pools on site will be accessible per chapter 11A and 11B.



| | NONRESIDEN |
|-------------------|---|
| Y N/A RESP PAR | |
| | SECTION 301 GENERAL 301 1 SCOPE Buildings shall be designed to include the green building measures specified as mandator |
| | both T Coort L. Buildings shall be designed to include the green building measures specified as mandator the application checklists contained in this code. Voluntary green building measures are also included in application checklists and may be included in the design and construction of structures covered by this cobut are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisio of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies v the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work. |
| | A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used. |
| | 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Sec 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1et seq. for definitions types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. |
| | 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) |
| | SECTION 302 MIXED OCCUPANCY BUILDINGS |
| | 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a buildir shall comply with the specific green building measures applicable to each specific occupancy. |
| | SECTION 303 PHASED PROJECTS 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvemen only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. |
| | 303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. |
| | HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and DevelopmentLRLow RiseHRHigh Rise |
| | AA Additions and Alterations N New CHAPTER 5 |
| | DIVISION 5.1 PLANNING AND DESIGN |
| | SECTION 5.101 GENERAL 5.101.1 SCOPE The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the |
| | SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 and are included here for reference) |
| | CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical an 80 degrees above nadir. This applies to all lateral angles around the luminaire. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: |
| | Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 10 as regulated under 40 CFR Section 600 Subpart D. |
| | NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards. TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permission |
| | occupants, such as employees, as distinguished from customers and other transient visitors. VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and u primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing. Note: Source: Vehicle Code, Division 1, Section 668 |
| | SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE AC OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures: |
| | 5.106.1.1 Local ordinance . Comply with a lawfully enacted storm water management and/or erosion con ordinance. 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion b implementing an effective combination of erosion and sediment control and good housekeeping BMPs. |
| | Soil loss BMPs that should be considered for implementation as appropriate for each project include but are not limited to, the following: a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation, soil, and buffers around surface waters. c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. |
| | f. Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls). h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits. j. Wind erosion control. k. Other soil loss BMPs acceptable to the enforcing agency. |
| | 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater disch and wastes that should be considered for implementation as appropriate for each project include are not limited to, the following: a. Dewatering activities. b. Material handling and waste management. c. Building materials stockpile management. |
| | a. Management of washout areas (concrete, paints, stucco, etc.). e. Control of vehicle/equipment fueling to contractor's staging area. f. Vehicle and equipment cleaning performed off site. g Spill prevention and control. h. Other housekeeping BMPs acceptable to the enforcing agency. |

ORNIA GREEN BUILDING STANDARDS CODE IAL MANDATORY MEASURES, SHEET 1 (January 2023) N/A RESPON. PARTY 5.106.5.3.3 Use of automatic load management Y N/A RESPON. PARTY ALMS shall be permitted for EVCS. When ALMS 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF specified in Section LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or 5.106.5.3.1 for each EVCS may be reduced whe more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. EVSE controlled by an ALMS shall deliver a mir and shall deliver a minimum 3.3 kW while simul Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the 5.106.5.3.4 Accessible EVCS. applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges When EVSE is installed, accessible EVSC shall Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or Code, Chapter 11B, Section 11B-228.3. the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). Note: For EVCS signs, refer to Caltrans Traffic Signs and Pavement Markings) or its successor The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES 5.106.5.4 Electric Vehicle (EV) charging: medium-duty permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration Construction shall comply with section 5.106.5.4.1 to fa through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. equipment (EVSE). Construction for warehouses, groce Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural spaces shall also comply with Section 5.106.5.4.1 for fu practices and be approved by the enforcing agency. Exceptions: 1. On a case-by-case basis where the loca Refer to the current applicable permits on the State Water Resources Control Board website at: section is not feasible based upon one of www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures a. Where there is no local utility por should be given during the initial design process for appropriate integration into site development. b. Where the local utility is unable to c. Where there is evidence suitable 5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as additional local utility infrastructure specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State of Section 5.106.5.3, may adversely Architect pursuant to Section 105, comply with Section 5.106.4.2 When EVSE(s) is/are installed, it shall be in acco Electrical Code and as follows: 5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter. 5.106.5.4.1 Electric vehicle charging readiness requiremen with planned off-street loading spaces. 5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated [N] In order to avoid future demolition when adding EV to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' raceways(s) or busway(s) and adequate capacity for entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being installed at the time of construction in accordance w added, with a minimum of one two-bike capacity rack. specifications shall include but are not limited to, the Exception: Additions or alterations which add nine or less visitor vehicular parking spaces. 1. The transformer, main service equipmer requirement in Table 5.106.5.4.1 to acco 5.106.4.1.2Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more installation of EVSE. tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking The construction documents shall indic spaces with a minimum of one bicycle parking facility. offstreet loading space(s) reserved for i charging dispensers, and a pathway res 5.106.4.1.3For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, raceway(s) or busway(s) to the charging provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a 5.106.5.4.1 minimum of one bicycle parking facility. 3. Raceway(s) or busway(s) originating a where potential future medium-and hea 5.106.4.1.4For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the proximity to the potential future location anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. vehicles 4. The raceway(s) or busway(s) shall be 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall to the future location of the charging for be convenient from the street and shall meet one of the following: 5.106.5.4.1. 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. TABLE 5.106.5.4.1 RACEWAY CONDUIT Note: Additional information on recommended bicycle accommodations may be obtained from **REQUIREMENTS FOR MEDIUM- AND H** Sacramento Area Bicycle Advocates. 5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2 5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently BUILDING TYPE BUILDING SIZE (SQ. FT accessed with a minimum of four two-bike capacity racks per new building. 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 10,000 to 90,000 2. Lockable bicycle rooms with permanently anchored racks; or Grocery 3. Lockable, permanently anchored bicycle lockers. Greater than 90,000 5.106.5.3 Electric vehicle (EV) charging . [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with 10,000 to 135,000 regulations in the California Building Code and the California Electrical Code. Retail Exceptions: Greater than 135,000 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply 20,000 to 256,000 b. Where the local utility is unable to supply adequate power. Warehouse c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Greater than 256,000 Section 5.106.5.3, may adversely impact the construction cost of the project. 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section 5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor li with the following: 5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following 1. The minimum requirements in the California Energ Section 10-114 of the California Administrative Co requirements: 2. Backlight (B) ratings as defined in IES TM-15-11 (s 1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) 3. Uplight and Glare ratings as defined in California diameter shall be provided and shall originate at a service panel or a subpanel(s) serving Chapter 8) and the area, and shall terminate in close proximity to the proposed location of the EV capable 4. Allowable BUG ratings not exceeding those shown and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be lawfully enacted pursuant to Section 101.7, whiche used to serve multiple EV charging spaces. 2. A service panel or subpanel (s) shall be provided with panel space and electrical load Exceptions: [N] capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS. 1. Luminaires that qualify as exceptions in Sec 3. The electrical system and any on-site distribution transformers shall have sufficient capacity 2. Emergency lighting. to supply full rated amperage at each EV capable space. 3. Building facade meeting the requirements 4. The service panel or subpanel circuit directory shall identify the reserved overcurrent 4. Custom lighting features as allowed by the l protective devices space(s) as "EV CAPABLE". The raceway termination location shall be Alternate materials, designs and methods of permanently and visibly marked as "EV CAPABLE." 5. Luminaires with less than 6,200 initial lumin Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details. TABLE 5.106.8 [N] MAXIMUM ALLOWABI UPLIGHT AND GLARE (BUG) RATINGS TABLE 5.106.5.3.1 LIGHTING NUMBER OF EVCS (EV ALLOWABLE RATING ZONE ZONE **TOTAL NUMBER OF ACTUAL** NUMBER OF REQUIRED EV CAPABLE SPACES LZ0 PARKING SPACES CAPABLE SPACES PROVIDED WITH MAXIMUM ALLOWABLE EVSE)^2 **BACKLIGHT RATING** 0-9 0 0 Luminaire greater than 2 10-25 0 No Lim N/A mounting heights (MH) from 26-50 property line 8 2 51-75 uminaire back hemisphere is 13 3 B2 N/A 1-2 MH from property line 76-100 17 4 uminaire back hemisphere is N/A B1 101-150 25 0.5-1 MH from property line 6 151-200 35 9 Luminaire back hemisphere is B0 less than 0.5 MH from N/A 201 AND OVER 20% of total¹ 25% of EV capable spaces¹ property line 1. Where there is insufficient electrical supply. MAXIMUM ALLOWABLE 2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards UPLIGHT RATING (U) the total number of required EV capable spaces shown in column 2. N/A For area lighting 3 110 5.106.5.3.2 Electric vehicle charging stations (EVCS) For all other outdoor EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table lighting, including decorative N/A U1 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of luminaires Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided. One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel. IA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED

| Y | = | YES |
|---------------|---|--|
| N/A | = | NOT APPLICABLE |
| RESPON. PARTY | = | RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER OWNER, CONTRACTOR, INSPECTOR ETC.) |

| | | | | | MAXIMUM ALLOWABI F | | N/A RESPON. PAR | = NOT A TY = RESP OWNE | PPLICABLE ONSIBLE PARTY (ie: R, CONTRACTOR, IN |
|--|--|---|-----------------------------|----------------------|--|--|--|---|---|
| ems (ALMS). nstalled, the r | equired electrica | l load capacity | | I/A RESPON. PARTY | GLARE RATING (G) | | | | - |
| erviced by an n 30 amperes | EVSE controlled to an EV when multiple EVs. | by an ALMS. Eacl charging one vehic | h cle | | GLARE RATING (G) | N/A | G1 | G2 | G3 |
| provided in | cordence with the | aCalifornia Duil-lie | | | GLARE RATING (G) | N/A | G0 | G1 | G1 |
| ations Policy | Directive 13-01 (| ະບຸລາເເດrnia Building Zero Emission Vel | nicle | | GLARE RATING (G) | N/A | G0 | G0 | G1 |
| neavy-duty. [N |] Nation of cloateic | | | | MAXIMUM ALLOWABLE GLARE RATING: (G) | N/A | G0 | G0 | G0 |
| Future Instant ores and retain Installation of | ilation of electric il stores with plan medium- and he | venicle supply ined off-street load avy-duty EVSE. | ling | | I. IESNA Lighting Zones 0 and <i>Code</i> and Chapter 10 of the <i>Ca</i> Eor property lines that abut p | 5 are not applicat <i>llifornia Administra</i> | ble; refer to Light ative Code. ikeways_plazas | ing Zones as de | fined in the Ca |
| orcing agency following cor upply. | / has determined nditions: nower | compliance with t | his | | For property lines that abut public road | the actual propert ic roadways and p way or public tran | y line for purpose public transit corr sit corridor for the | e of determining idors, the prope e purpose of det | compliance with rty line may be ermining comp |
| a local enforcing requirement act the constru | ng agency subst s, directly related action cost of the | antiating that I to the implementa project. | ation | | section. 3. General lighting luminaires in ratings. Decorative luminaries lo | areas such as ou | Itdoor parking, sa | lles or storage lo | ots shall meet t |
| ce with theCa | lifornia Building (grocery stores ar | Code, the California | a | | 5.106.8.1 Facing- Backlight | | | - 4 4 1 | |
| ing supply an | d distribution equ | lipment, spare | | | and shall comply with the ba the nearest point of that prop | cklight rating spec | cified in Table 5.1 | 06.8 based on t | he lighting zon |
| e California E wing: d subpanel sł | lectrical Code. Co | imum power | and | | to the luminaire, then the lum directly behind the luminaire lines to determine the require | wo property lines ninaire may be ori . The luminaire sh ed backlight rating | (or two segments ented so that the iall still use the di j. | s of the same pr intersection of t stance to the ne | operty line) hav he two lines (th arest points(s) |
| n or more loca | ation(s) convenie | nt to the planned | | | 5.106.8.2 Facing-Glare. For luminaires covered by 5. | 106.8.1, if a prop | erty line also exis | ts within or exte | nds into the fro |
| n-and heavy for routing onet(s) and di | r-outy ∠EV charg of conduit from th spenser(s) as she | ing cabinets and e termination of th own in Table | e | | 2MH of the luminaire then th 5.106.8 based on the lighting hemisphere. | e luminaire shall o zone and distand | comply with the m ce to the nearest | nore stringent gl point on the nea | are rating spec arest property li |
| ו service par y EVSE will charging ec | nel or a subpanel be located and s uipments for me | l(s) serving the are hall terminate in cl dium- and heavv-d | ea ose luty | | Note: [N] 1.See also California Buildi parking facilities and walker | ng Code Chapter | 12, Section 1205 | 5.6 for college c | ampus lighting |
| nt size to car um- and bea | ry the minimum a | additional system I shown in Table | oad | | 2.Refer to Chapter 8 (Com A-1, California Energy Cod | pliance Forms, W eTables 130.2-A | orksheets and R and 130.2-B. | eference Materi | al) for IES TM- |
| | | | | | 5.106.10 GRADING AND PAVIN | G. Construction | olans shall indica | te how site grad | ing or a draina |
| PANEL | POWER | | | | manage all surface water flow water include, but are not lim | ws to keep water t ited to, the follow | nom entering bui ing: | uings. Example | es or methods t |
| -DUTY E | VSE [N] | | | | Swales. Water collection and dis French drains. | oosal systems. | | | |
| | A | ADDITIONAL CAPACITY | | | Water retention gardens Other water measures w Exception: Additions ar | hich keep surface nd alterations not : | e water away fron altering the drain | n buildings and a age path. | aid in groundwa |
| NUMBER OFF-STF | ROF REG REET FOF PACES BI | QUIRED (KVA) R RACEWAY & USWAY AND | | | 5.106.12 SHADE TREES [DSA-S and 5.106.12.3. Percentages | SS]. Shade Trees shown shall be r | shall be planted neasured at noor | to comply with S | Sections 5.106. r solstice. Land |
| 0 | TRA | NSFORMER & PANEL | | | necessary to establish and m 5.106.12.1 Surface parking a | naintain tree healt areas. Shade tre | h shall comply wi e plantings, minir | th Section 5.304 num #10 contai | 1.6. ner size or equa |
| 1 or 2 | ater | 200 | | | to provide shade over 50 per Exceptions: Surfa | cent of the parkin | g area within 15 g | years. photovoltaic sha | de structures w |
| 1 or Grea | ater | 400 | | | materials that compl lieu of shade tree pla | y with Table A5.10 anting. | 06.11.2.2 in Appe | endix A5 shall b | e permitted in v |
| 1 or 2 3 or Gree | ater | 200 | | | 5.106.12.2 Landscape areas provide shade of 20% of the | . Shade tress pla landscape area w | antings, minimum ⁄ithin 15 years. | #10 container s | size or equal sh |
| 1 or Grea | ater | 400 | | | Exceptions: Playfi | elds for organized | l sport activity are | e not included in | the total area |
| 1 or 2 | ater | 200 | | | 5.106.12.3. Hardscape area provide shade over 20 perce | s. Shade tree pla nt of the hardscap | antings, minimum be area within 15 | #10 container s years. | size or equal sh |
| 1 or Grea | ater | 400 | | | Exceptions: 1. Walks, hardscape areas materials that comply wi | covered by solar th Table A5.106.1 | photovoltaic sha 11.2.2 in Appendi | ide structures or x A5 shall be be | shade structur rmitted in whol |
| ן systems sha | all be designed ar | nd installed to com | iply | | of shade tree planting. 2. Designated and marked | play areas of org | anized sport activ | vity are not inclu | ded in the total |
| de for Liahtin | g Zones 0-4 as d | lefined in Chapter | 10. | | DIVISION 5.2 EN SECTION 5.201 GENER | EKGY EFF Ral | ICIENCY | | |
| id in Table A-1 | in Chapter 8); | 2-A and 130 2 P in | | | 5.201.1 Scope [BSC-CG]. Califor standards in this code, the Califor | nia Energy Code rnia Energy Comr | [DSA-SS] . For mission will contir | the purposes of nue to adopt ma | mandatory energy building |
| ble 5.106.8, | [N] or Comply wi | th a local ordinanc | e | | DIVISION 5.3 WA | TER EFFI | CIENCY A | ND CON | SERVAT |
| sunge | | | | | SECTION 5.301 GENER 5.301.1 Scope. The provisions of and in wastewater converses | RAL f this chapter sha | ll establish the m | eans of conserv | ing water use i |
| 130.2 (b) an | d 140.7 of the Ca | alifornia Energy Co | ode. | | SECTION 5.302 DEFINI | TIONS | | | |
| ⇒ 140.7-B of nforcing age truction. | ine Calitornia En ency, as permitted | lergy Code, Part 6 d by Section 101.8 | | | 5.302.1 Definitions. The followin | ig terms are defin | ed in Chapter 2(a | nd are included | here for refere |
| mens. | | | | | reference evapotranspiration that the amount of water that needs to | adjusts for plant be applied to the | factors and irriga factors and irriga e landscape. | یود. An adjustm tion efficiency, v | ent factor when which ae two m |
| | т | | | | FOOTPRINT AREA [DSA-SS]. T not including exterior areas such | he total area of th as stairs, covered | ne furthest exterio d walkways, patio | or wall of the strustion and decks. | ucture projected |
| | •, | | | | METERING FAUCET. A self-clos volume or cycle duration can be | sing faucet that dis fixed or adjustable | spenses a specifi e. | ic volume of wat | er for each act |
| LIGHTING ZONE LZ2 | LIGHTING ZONE LZ3 | LIGHTING ZONE LZ4 | | | GRAYWATER. Pursuant to Heal has not been contaminated by ar | th and Safety Coo to toilet discharge | de Section 17922 , has not been af | 2.12, "graywater fected by infecti | " means untrea ous, contamina |
| | | | | | operating wastes, and does not pres operating wastes. "Graywater" ir washbasins, clothes washing ma | chines and laund | limited to wastev ry tubs, but does | water from batht not include was | ubs, showers, l te water from k |
| No Limit | No Limit | No Limit | | | dishwashers. MODEL WATER EFFICIENT LAI | | |). The California | a ordinance reg |
| B3 | B4 | B4 | | | uesign, installation and maintena landscapes greater than 2500 sq climatological parameters. | uce practices that uare feet meet an | will ensure comi i irrigation water b | mercial, multifar oudget develope | nny and other d ed based on lar |
| B2 | B3 | B3 | | | MODEL WATER EFFICIENT LAI (California Code of Regulations. | NDSCAPE ORDIN Title 23, Division 2 | NANCE (MWELC 2, Chapter 2.7), re |). [HCD] The Ca egulating landso | alifornia model cape design, ins |
| | B1 | B2 | | | maintenance practices. Local ag as effective as the MWELO. | encies are require | ed to adopt the up | odated MWELO | , or adopt a loc |
| B0 | | | | | POTABLE WATER. Water that is Water Standards. See definition | s drinkable and m in the California P | eets the U.S. Env lumbing Code, P | vironmental Pro art 5. | tection Agency |
| B0 | 110 | U0 | | | POTABLE WATER. [HCD] Wate U.S. Environmental Protection Ag Having Jurisdiction. | r that is satisfacto gency (EPA) Drinł | ory for drinking, co king Water Stand | ulinary, and don ards and the rec | nestic purposes quirements of th |
| B0 | | | | | RECYCLED WATER. Water whi | ch, as a result of t erwise occur [Wat | reatment of wast er Code Section | e, is suitable for 13050 (n)]. Sim | a direct benefi ply put, recycle |
| B0 | U3 | UR | | | the start to the s | ** o | +ho+: | 110 - 11 | a a lin |
| B0 | U3 | UR | | | treated to remove waste matter a SUBMETER. [HCD 1] A seconda | ittaining a quality i ry device beyond | a meter that mea | use the water a asures water co | igain. nsumption of ar |







2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

| ON. Y | | Y | ′ N/A | RESPON. PARTY | |
|----------|---|---------|-------|------------------|--|
| | | | | | 5.410.2 COMMISSIONING. [N]New buildings 10,000 square feet and and over, building commissioning shall be included in the design and |
| | SECTION 5.402 DEFINITIONS | | | | Commissioning shall be performed in accordance with this section by comparable size and complexity. For I-occupancies that are not regul |
| | 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2(and are included here for reference) ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust | st | | | L-occupancies that are not regulated y the California Energy Code Se 5.410.2 through 5.410.2.6 shall apply. |
| | a damper. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals. | | | | Note: For energy-related systems under the scope (Section 100) of the ventilation, air conditioning (HVAC) systems and controls, indoor light heating systems and controls, refer to California Energy Code Section |
| | according to design quantities. | | | | Commissioning requirements shall include: |
| | process, including verifying and documenting that building systems and components are planned, designed, installed tested, operated and maintained to meet the owner's project requirements. | I, | | | Owner's or Owner representative's project requirements. Basis of design. Commissioning measures shown in the construction documents. |
| | soiled paper waste that is mixed in with food waste. | | | | Commissioning plan. Functional performance testing. Documentation and training. |
| | SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION.Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent. | | | | Commissioning report. Exceptions: 1. Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other |
| | 5.407.2 MOISTURE CONTROL.Employ moisture control measures by the following methods. | | | | unconditioned warehouses. 3. Tenant improvements less than 10,000 square feet as desc 4. Open parking garages of any size, or open parking garages of any size. |
| | 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. | | | | Note: For the purposes of this section, unconditioned shall mea |
| | rain to prevent water intrusion into buildings as follows: | | | | provide heating and or air conditioning. Informational Notes: |
| | 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: | o | | | IAS AC 476 is an accreditation criteria for organizations pro- commissioning personnel. AC 476 is available to the Author qualifications of commissioning personnel. AC 476 des not |
| | An installed awning at least 4 feet in depth. The door is protected by a roof overhang at least 4 feet in depth. The door is recessed at least 4 feet. Other methods which provide equivalent protection. | | | | performance tests or to adjust and balance systems. 2. Functional performance testing for heating, ventilation, air comust be performed in compliance with the California Energy |
| | 5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane. | | | | 5.410.2.1 Owner's or Owner Representative's Project Require |
| | SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or | | | | requirements of the building appropriate to its phase shall be deproject begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Building sustainable goals. 3. Indoor environmental quality requirements. 4. Project program, including facility functions and hour |
| | meet a local construction and demolition waste management ordinance, whichever is more stringent. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and | | | | Equipment and systems expectations. Building occupant and operation and maintenance (C |
| | demolition waste management ordinance, submit a construction waste management plan that: | | | | 5.410.2.2 Basis of Design (BOD). [N] A written explanation of the OPR shall be completed at the design phase of the building |
| | usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) chulk mixed (cingle stream). | or | | | cover the following systems: 1. Renewable energy systems. |
| | Identifies diversion facilities where construction and demolition waste material collected will be taken Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. | 1. 1 | | | Landscape irrigation systems. Water reuse system. 5.410.2.3 Commissioning plan. [N] Prior to permit issuance a |
| | 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. | | | | document how the project will be commissioned. The commiss 1. General project information. 2. Commissioning goals. 3. Systems to be commissioned. Plans to test systems |
| | Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Exceptions to Sections 5.408.1.1 and 5.408.1.2: | | | | a. An explanation of the original design intent. b. Equipment and systems to be tested, including c. Functions to be tested. d. Conditions under which the test shall be performed. |
| | Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities | | | | Commissioning team information. Commissioning process activities, schedules and res commissioning shall be included. |
| | and markets. 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement | nt | | | 5.410.2.4 Functional performance testing. [N] Functional per installation and operation of each component, system and system approved plans and specifications. Functional performance tes each of the building components tested, the testing methods ut made. |
| | as approved by the enforcing agency. 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. | | | | 5.410.2.5 Documentation and training. [N] A Systems Manual including Occupational Safety and Health Act (OSHA) requirem Title 8, Section 5142, and other related regulations. |
| | Notes: | | | | 5.410.2.5.1 Systems manual. [N] Documentation of the completed within the systems manual and delivered to the |
| | Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission- Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste | | | | systems manual shall include the following: 1. Site information, including facility description, h |
| | management plan. 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). | | | | Basic operations and maintenance, including g troubleshooting, recommended maintenance r |
| | 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste | | | | 4. Major systems. 5. Site equipment inventory and maintenance not 6. A copy of verifications required by the enforcin |
| | tems such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Wast materials shall be included in the construction documents. | d te | | | 7. Other resources and documentation, if applica |
| | Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/ | | | | staff for each equipment type and/or system shall be dev report and shall include the following: |
| | 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. | | | | System/equipment overview (what it is, what it equipment it interfaces). Review and demonstration of servicing/preven |
| | Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. | | | | Review of the information in the Systems Manual Review of the record drawings on the system/e |
| | Notes: | | | | 5.410.2.6 Commissioning report. [N] A report of commissionin design and construction phases of the building project shall be |
| | If contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. For a map of know pest and/or disease quarantine zones, consult with the California Department of For a map of know pest and/or disease quarantine zones, consult with the California Department of | | | | representative. |
| | Food and Agriculture. (www.cdia.ca.gov) | | | | systems shall be required for new buildings less than 10,000 square f alteration subject to Section 303.1. |
| | | | | | 5.410.4.2 (Reserved) Note: For energy-related systems under the scope (Section 10 |
| | SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. |) | | | heating, ventilation, air conditioning (HVAC) systems and contr as water heating systems and controls, refer to California Ener- requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 systems. |
| | Exception : Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. | | | | 5.410.4.2 Systems. Develop a written plan of procedures for te included for testing and adjusting shall include at a minimum, a |
| | 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. | | | | Renewable energy systems. Landscape irrigation systems. |
| | Exception : Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area. | | | | Water reuse systems. 5.410.4.3 Procedures. Perform testing and adjusting procedur |
| | 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of thePublic Resources Code Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). | | | | specifications and applicable standards on each system. 5.410.4.3.1 HVAC balancing. In addition to testing and a |
| | Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site. | | | | System serving a building or space is operated for norma accordance with the procedures defined by the Testing A Standards; the National Environmental Balancing Bureau Council National Standards or as approved by the enform |
| | | | | | |

| | | RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.) |
|---|------------------------|---|
| | Y N/A RESPON. PARTY | |
| over. For new buildings 10,000 square feet on onstruction processes of the building project to | | 5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services |
| wner representative's project requirements. rained personnel with experience on projects of ted by OSHPD or for I-occupancies and tion 100.0 Scope, all requirements in Sections | | 5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related |
| California Energy Code, including heating, g systems and controls, as well as water 120.8 for commissioning requirements | | regulations. 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency. |
| | | DIVISION 5.5 ENVIRONMENTAL QUALITY |
| ents. | | SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 and are included here for reference) |
| onditioned accessory spaces within | | ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting |
| bed in Section 303.1.1. eas, of any size, within a structure. | | adjustments have been made. 1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu the amount of heat required to melt a ton (2,000 pounds) of ice at 32 Fahrenheit |
| a building, area, or room which does not | | COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm |
| ding training and/or certification of / Having Jurisdiction as a reference for rtify individuals to conduct functional | | to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. COMPOSITE WOOD PRODUCTS.Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or |
| ditioning systems and lighting controls ode | | Note: See CCR, Title 17, Section 93120.1. |
| ents (OPR). [N] The expectations and sumented before the design phase of the | | DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity. |
| of operation, and need for after hours | | ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the alifornia Electrical Code |
| .M) personnel expectations. | | off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included. |
| Project. The Basis of Design document shall | | ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle. |
| ommissioning plan shall be completed to ning plan shall include the following: | | ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest. |
| d components shall include: | | EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections. |
| ne extent of tests. | | FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. |
| ed. | | GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one. |
| onsibilities. Plans for the completion of rmance tests shall demonstrate the correct | | GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14 : the AR4 GWP values are found in column "100 yr" of Table 2.14 |
| n-to-system interface in accordance with the ng reports shall contain information addressing zed, and include any readings and adjustments | | HIGH-GWP REFRIGERANT.A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Eaderal Regulations. Part 82, sec 82.3 (as amended March 10, 2009) |
| and Systems Operations Training are required, nts iଢalifornia Code of Regulations(CCR), | | LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter. |
| erational aspects of the building shall be building owner or representative. The | | LOW-GWP REFRIGERANT.A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009). |
| tory and current requirements. | | MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. |
| neral site operating procedures, basic juirements, site events log. | | MAXIMUM INCREMENTAL REACTIVITY (MIR).The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g Ở/g ROC). |
| agency or this code. e. | | PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundred ths of a gram of ozone formed per gram of product (excluding container and packaging). |
| or training of the appropriate maintenance oped and documented in the commissioning | | PSIG. Pounds per square inch, guage. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to |
| ve maintenance. | | SCHRADER ACCESS VALVES. Access fittings with a valve core installed. |
| ıl. uipment. | | SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter. |
| process activities undertaken through the ompleted and provided to the owner or | | SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remete compresser units or condensing units. |
| equare feet. Testing and adjusting of et or new systems to serve an addition or | | VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) |
| | | Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. |
| of the California Energy Code, including s, indoor lighting system and controls, as well Code Section 120.8 for commissioning or additional testing requirements of specific | | SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. |
| ting and adjusting systems. Systems to be applicable to the project: | | 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. |
| s in accordance with manufacturaria | | SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a |
| justing, before a new space-conditioning | | Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction. |
| use, the system shall be balanced in | | 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation |

= YES



| [| | | |
|---|----------------------------|--|--|
| | | 20 | 22 CALIE |
| | | ۷۲ | |
| | | NO | NRESIDENT |
| | | | |
| | Y N/A RESPON. PARTY 5.5 | 504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish mate | rials shall comply with Sections 5.504.4.1 through |
| | | 5.504.4.0. | nts, and caulks used on the project shall meet |
| | | the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive prime | rs, sealants, sealant primers and caulks shall |
| | | comply with local or regional air pollution control or air qua applicable, or SCAQMD Rule 1168 VOC limits, as shown | ality management district rules where in Tables 5.504.4.1 and 5.504.4.2. Such |
| | | chloroform, ethylene dichloride, methylene chloride, perc | on the use of certain toxic compounds hloroethylene and trichloroethylene), except for |
| | | Aerosol adhesives, and smaller unit sizes of adhesive | s, and sealant or caulking compounds (in |
| | | units of product, less packaging, which do not weigh more than 16 fluid ounces) shall comply with statewide VOC sta | e than one pound and do not consist of more andards and other requirements, including |
| | | prohibitions on use of certain toxic compounds, obalifornia with Section 94507. | a Code of Regulations Litle 17, commencing |
| | | TABLE 5.504.4.1 - ADHESIVE VOC LIMIT | ,2 |
| | | Less Water and Less Exempt Compounds in Grams per L | iter |
| | | ARCHITECTURAL APPLICATIONS | CURRENT VOC LIMIT |
| | | INDOOR CARPET ADHESIVES | 50 |
| | | OUTDOOR CARPET ADHESIVES | 150 |
| | | WOOD FLOORING ADHESIVES | 100 |
| | | | 60 |
| | | CERAMIC TILE ADHESIVES | 65 |
| | | VCT & ASPHALT TILE ADHESIVES | 50 |
| | | DRYWALL & PANEL ADHESIVES | 50 |
| | | MULTIPURPOSE CONSTRUCTION ADHESIVES | 70 |
| | | STRUCTURAL GLAZING ADHESIVES | 100 |
| | | SINGLE-PLY ROOF MEMBRANE ADHESIVES | 250 |
| | | SPECIALTY APPLICATIONS | |
| | | PVC WELDING | 510 |
| | | | 490 |
| | | PLASTIC CEMENT WELDING | 250 |
| | | ADHESIVE PRIMER FOR PLASTIC | 550 |
| | | CONTACT ADHESIVE | 80 |
| | | STRUCTURAL WOOD MEMBER ADHESIVE | 140 |
| | | TOP & TRIM ADHESIVE | 250 |
| | | SUBSTRATE SPECIFIC APPLICATIONS | 20 |
| | | PLASTIC FOAMS | 50 |
| | | POROUS MATERIAL (EXCEPT WOOD) | 50 |
| | | WOOD | 30 |
| | | 1 IF AN ADHESIVE IS USED TO BOND DISSIMILAR SU | |
| | | WITH THE HIGHEST VOC CONTENT SHALL BE ALLOW | VED. |
| | | 2. FOR ADDITIONAL INFORMATION REGARDING MET CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH CO | HODS TO MEASURE THE VOC |
| | | DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURH | TML/R1168.PDF |
| | | | |
| | | Less Water and Less Events Community of China and | the m |
| | | SEALANTS | CURRENT VOC LIMIT |
| | | ARCHITECTURAL | 250 |
| | | | 760 |
| | | ROADWAY | 250 |
| | | SINGLE-PLY ROOF MEMBRANE | 450 |
| | | | 420 |
| | | ARCHITECTURAL | |
| | | NONPOROUS | 250 |
| | | | 500 |
| | | MARINE DECK | 760 |
| | | OTHER | 750 |
| | | NOTE: FOR ADDITIONAL INFORMATION REGARDING CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH | METHODS TO MEASURE THE VOC |
| | | DISTRICT RULE 1168. | |
| | | 5.504.4.3 Paints and coatings. Architectural paints and coat the ARB Architectural Coatings Suggested Control Measure | atings shall comply with VOC limits in Table 1 of , as shown in Table 5.504.4.3, unless more |
| | | stringent local limits apply. The VOC content limit for coating coatings categories listed in Table 5.504.4.3 shall be determ or Nonflat High Closs coating, based on its gloss, as defined | ined by classifying the coating as a Flat, Nonflat |
| | | California Air Resources Board Suggested Control Measure Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply. | , and the corresponding Flat, Nonflat or |
| | | 5.504.4.3.1 Aerosol Paints and coatings. Aerosol pa | ints and coatings shall meet the PWMIR Limits for |
| | | ROC in Section 94522(a)(3) and other requirements, i compounds and ozone depleting substances, in Sect Regulations Title 17, commencing with Section 94520 Bay Area Air Quality Management District additionally limits of Peculation 8 Puble 40 | including prohibitions on use of certain toxic ions 94522(c)(2) and (d)(2) G alifornia Code of 0; and in areas under the jurisdiction of the 1 ^o comply with the percent VOC by weight of product |
| | | TABLE 5.504.4.3 - VOC CONTENT LIMITS | FOR ARCHITECTURAL |
| | | GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS | EXEMPT COMPOUNDS |
| | | FLAT COATINGS | 50 |
| | | | 100 |
| | | | · · · · · · · · · · · · · · · · · · · |

ORNIA GREEN BUILDING STANDARDS CODE **TIAL MANDATORY MEASURES, SHEET 3** (January 2023)

| TABLE 5.504.4.3 - CONT. | Y N/A RES | DN. 7 5 504 4 6 Resilient flooring systems Where resilient flooring is installed, at least 80 percent of floor area | Y N/A RESPON. PARTY | 5 508 2 Supermarket refrigerant leak reduction New commercial refrigeration systems shall comply with the |
|---|---|--|------------------------|---|
| GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS | 3 | receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using | | provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or |
| COATING CATEGORY CURRE | ENT VOC LIMIT | Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350) | | condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming poter (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the |
| SPECIALTY COATINGS | | See California Department of Public Health's website for certification programs and testing labs | | replacement of existing refrigeration systems in existing facilities. |
| ALUMINUM ROOF COATINGS | 400 | https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material | | Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP |
| BASEMENT SPECIALTY COATINGS | 400 | 5 504 4.6.1 Verification of compliance — Documentation shall be provided verifying that resilient flooring | | that include ammonia, carbon dioxide (CQ), and potentially other refrigerants. |
| BITUMINOUS ROOF COATINGS | 50 | materials meet the pollutant emission limits. | | 5 500.2.4 Definition of the compliant with the Colifernia Mechanical Code shall be installed to be |
| BITUMINOUS ROOF PRIMERS | 350 | 5.504.4.7 Thermal insulation | | accessible for leak protection and repairs. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside |
| | 350 | and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, | | refrigerant systems except as noted below. |
| | 100 | "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. | | 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. |
| DRIVEWAY SEALERS | 50 | https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material | | 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a |
| DRY FOG COATINGS | 150 | 5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emissio | n | refrigerant charge of 5 pounds or less. |
| FAUX FINISHING COATINGS | 350 | limits. | | 5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils. |
| FIRE RESISTIVE COATINGS | 350 | 5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing | | 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure |
| FLOOR COATINGS | 100 | and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.2, January 2017 (Emission testing method for California Specification 01350). | " | controls, valve pilot lines and oil. |
| FORM-RELEASE COMPOUNDS | 250 | See California Department of Public Health's website for certification programs and testing labs. | | Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacture |
| GRAPHIC ARTS COATINGS (SIGN PAINTS) | 500 | 5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits | | recommendations. |
| | 420 | 5 504 5 3 Filters In mechanically ventilated buildings, provide regularly occupied areas of the building with ai | r | 5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows. |
| | 250 | filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) | of | 5 508.2.2 Valves Valves and fittings shall comply with the alifernia Mechanical Codeand as |
| | 120 | the same value shall be included in the operation and maintenance manual. | | follows. |
| | 100 | Exceptions: Existing mechanical equipment. | | 5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall |
| | 500 | 5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV | | be installed between the outlet of the vessel and the inlet of the pressure relief valve. |
| MULTICOLOR COATINGS | 250 | rating. | | 5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc |
| PRETREATMENT WASH PRIMERS | 420 | 5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building a | as | rupture or discharge of the relief valve. |
| PRIMERS, SEALERS, & UNDERCOATERS | 100 | already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the | | 5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use. |
| REACTIVE PENETRATING SEALERS | 350 | University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, pos signage to inform building occupants of the prohibitions. | t | 5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps |
| RECYCLED COATINGS | 250 | SECTION 5 505 INDOOR MOISTURE CONTROL | | shall be brass or steel and not plastic. |
| ROOF COATINGS | 50 | 5.505.1 INDOOR MOISTURE CONTROL Buildings shall meet or exceed the provisions of California Building Code, | | 5.508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. |
| RUST PREVENTATIVE COATINGS | 250 | Section 5.407.2 of this code. | | 5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps. |
| SHELLACS: | | SECTION 5.506 INDOOR AIR QUALITY | | Exception: Valves with seal caps that are not removed from the valve during stem |
| | 730 | 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the alifornia Energy Code or the applicable local | | operation. |
| | 550 | code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8. | | 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar a salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prever |
| SPECIALTY PRIMERS, SEALERS & UNDERCOATERS | 100 | 5.506.2 CARBON DIOXIDE (CQ) MONITORING. For buildings or additions equipped with demand control | | corrosion from these substances. |
| STAINS | 250 | of the California Energy Code, Section 120(c)(4). | | 5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to |
| STONE CONSOLIDANTS | 450 | 5.506.3 Carbon dioxide (CO2) monitoring in classrooms. | | E 500.2.4 Definite energy enciency. |
| | 340 | equipped with a carbon dioxide monitor or sensor that meets the following requirements: | nd | with a device tha indicates the level of refrigerant in the receiver. |
| | 100 | 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable | | 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and |
| | 250 | 2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or | | charging. |
| WOOD COATINGS | 275 | carbon dioxide readings shall be available to and regularly monitored by facility personnel. | | 5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum. |
| WOOD PRESERVATIVES | 350 | 3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility | | 5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same |
| ZINC-RICH PRIMERS | 340 | exceeded 1,100ppm. | | gauge. |
| 1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUN | NDS | 4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain record of previous carbon dioxide measurements of not less than 30 days duration. | na | 5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge. |
| 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN THE TABLE. | N SUBSEQUENT COLUMNS IN | 5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon diox levels with a range of 400ppm to 2000ppm or greater. | ide | 5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging. |
| 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA | IA AIR RESOURCES BOARD, | 6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbor dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than | | 5.508,2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and |
| FROM THE AIR RESOURCES BOARD. | | once every 5 years. | | hold for 30 minutes. |
| 5.504.4.3.2 Verification. Verification of compliance with this section shall | be provided at the request of | SECTION 5.507 ENVIRONMENTAL COMFORT | | 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for minutes. |
| 1. Manufacturer's product specification 2. Field writing of on site product containers | | S.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission | | 5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hou |
| 5 504.4.4 Cornet Systems | | Class (OFFC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. | | with a maximum drift of 100 microns over a 24-hour period. |
| All carpet installed in the building interior shall meet the requirements of the Cal | alifornia Department of Public | Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior | | CHAPTER 7 |
| Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission | on testing method for California | noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings. | | INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS |
| | | Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all | | 702 QUALIFICATIONS |
| See California Department of Public Health's website for certification programs https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.a | aspx#material | subsections apply only to new construction. | | INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or |
| 5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building int | terior shall meet the | 5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC | | certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC system |
| Evaluation of Volatile Organic Chemical Emissions from Indoor Sources U | ethod for the Testing and Using Environmental | rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations: | of | Examples of acceptable HVAC training and certification programs include but are not limited to the following: |
| Chambers,"Version 1.2, January 2017 (Emission testing method for Califor 01350). | fornia Specifications | 1. Within the 65 CNEL noise contour of an airport. | | State certified apprenticeship programs. Public utility training programs. |
| See California Department of Public Health's website for certification prog | grams and testing labs. | Exceptions: | | Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations. |
| https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/P | Pages/VOC.aspx#material | 1. Let or CNEL for military airports shall be determined by the facility Air Installation Compatible | | 5. Other programs acceptable to the enforcing agency. |
| 5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirement | nents of Table 5.504.4.1. | Land Use Zone (AICÚZ) plan. | | 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or |
| 5.504.4.5 Composite wood products. Hardwood plywood, particleboard and m composite wood products used on the interior or exterior of the buildings shall m | nedium density fiberboard meet the requirements for | shall be determined by the local general plan noise element. | | other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to |
| formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Cor seq.). Those materials not exempted under the ATCM must meet the specified e | mposite Wood (17 CCR 93120 et emission limits, as shown in | Within the 65 CNEL or be noise contour of a freeway or expressway, railroad, industrial source or fixed-quideway source as determined by the Noise Element of the General Plan | | other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may considered by the enforcing agency when evaluating the qualifications of a special inspector: |
| Table 5.504.4.5. | | 5 507 4 1 1 Noise exposure where noise contours are not readily available Buildings exposed to a | | 1 Certification by a national or regional green building program or standard publisher |
| 5.504.4.5.3 Documentation. Verification of compliance with this section s requested by the enforcing agency. Documentation shall include at least of | shall be provided as one of the following: | noise level of 65 dB L_{q} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and root creating assemblies exposed to the noise source meeting a composite STC rating | of | Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. |
| Product certifications and specifications. Chain of custody certifications | | at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). | | Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. |
| Product labeled and invoiced as meeting the Composite Wood Product CCR_Title 17_Section 93120, et seq.) | ucts regulation (see | 5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall ar | nd | A. Other programs acceptable to the emotioning agency. |
| Exterior grade products marked as meeting the PS-1 or PS-2 standard Engineered Wood Association, the Australian AS/NIZS 2269 or Europa | rds of the | envelope shall be constructed to provide an interior noise environment attributable to exterior sources that do | es | Notes. |
| standards. 5 Other methods accentable to the enforcing accent. | | 5 507 4.2.4. Site Conturned Extension fortunes with a second by the line of the fortunes of the fortune of the fortunes of the fortune of | | project they are inspecting for compliance with this code. |
| 5. Other methods acceptable to the enforcing agency. | | 5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior. | | ∠. TREAS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS). |
| TABLE 5.504.4.5 - FORMALDEHYDE LIMITS 1 | | 5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior | | [BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent |
| MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION | | sound levels shall be prepared by personnel approved by the architect or engineer of record. | | snall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing |
| PRODUCT CL | URRENT LIMIT | 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tena spaces and public places shall have an STC of at least 40. | nt | agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The |
| HARDWOOD PLYWOOD VENEER CORE | 0.05 | Note: Examples of assemblies and their various STC ratings may be found at the California Office of | | area of certification shall be closely related to the primary job function, as determined by the local agency. |
| HARDWOOD PLYWOOD COMPOSITE CORE | 0.05 | Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf. | | Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. |
| | 0.09 | 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC refrigeration and fire suppression | n | 703 VERIFICATIONS |
| | 0.13 | equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. | | 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to |
| 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA A | AIR RESOURCES BOARD, AIR | 5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do no contain CFCs. | bt | construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or |
| TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIO | TH ASTM E 1333. FOR ONS 93120 THROUGH 93120.12. | 5 508 1.2 Halone Install HV/AC refrigeration and fire suppression equipment that do not contain Uplant | | special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist. |
| 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 | 3 MM). | | | |
| DING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPAR | RTMENT JURISDICTIONS, THIS CHECKLIST IS T | BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE | E END USER ASSUM | ES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE |

(ie: ARCHITECT, ENGINEER, , INSPECTOR ETC.)



LL_

















:2\2022014 HOMEFED CORP Cota Vera Swim Club\2022014 CD_CD REVIT\2022014 CD - COTA VERA SWIM CL



REFLECTED CEILING PLAN REFLECTED CEILING KEYNOTES

SOFFIT/ ARCH PER INTERIOR / EXTERIOR ELEVATIONS.
 GYP. BOARD CEILING FINISH - TYP. U.N.O.
 WATER PROOF GYP. BOARD CEILING FINISH.
 PLASTER HARD TROWEL CEILING FINISH.
 1X6 T4G CEDAR CEILING FINISH.
 2X6 T4G OVER ROOF RAFTERS.
 RESAWN STAINED DECORATIVE BEAM/ JOIST - SIZE AS NOTED.
 RESAWN WOOD BEAMS/ RAFTERS PER ELEVATIONS/ DETAILS.
 RESAWN WOOD POST.
 ATTIC ACCESS 30"X30" U.N.O.



SCALE 3/16" = 1'-0"

| ELECTRICAL LEGEND |
|---|
| 4" RECESSED CAN DOWNLIGHT TYP. U.N.O PER I DESIGN DWG. SCONCE LIGHT FIXTURE PER INT. DESIGN DWG. |
| \sim 1'X4' LED FLUSH LIGHT FIXTURE |
| TUBE UP AND DOWN WALL LIGHT FIXTURE. PER IN DESIGN DWG. |
| |
| HANGING INDIRECT LIGHT FIXTURE PER INT. DESIG DWG., POSITION ABOVE CONF. ROOM TABLE. |
| CEILING FAN PER INT. DESIGN DWG. |
| |
| |
| |
| |
| |





LL_



INT. KEYNOTES (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)

- 1 KITCHEN COUNTERTOP: PER PLAN. 2 GYP. BOARD SOFFIT.
- 3 KITCHEN SINK WITH GARBAGE DISPOSAL, PER PLAN.
- 4 REFRIGERATOR SPACE PER FLOOR PLAN.
- 5 DISHWASHER: STAINLESS STEEL, 24" WIDE CLEAR.
- 6 FOLDING SEAT, PER CBC 11B-608.4, 11B-610.
- FLEXIBLE SHOWER SPRAY HOSE 59" LONG MIN. 48" MAX. TO TOP OF MOUNTING BRACKET FROM SHOWER FLOOR. PER CBC 11B-608.6 8 SHOWER HEAD: PER PLAN.
- q CABINETS: 4" HIGH X 3" DEEP TOE SPACE.
- 10 WALL MOUNTED MIRROR: FIXED PLATE GLASS, 8' A.F.F. (U.N.O.).
- 1 1 EXTERIOR PLASTER SOFFIT. 12 EXTERIOR SIDING FINISH.
- 13 DRINKING FOUNTAIN, PER CBC 11B-602. STAINLESS STL. MODEL: PER PLAN 14 CERAMIC WALL TILE OVER CEMENT BACKER BOARD 0/ 15# ASPHALT PAPER. 9"X12" TILE WAINSCOT FOR RESTROOM (INTERIORS); 9"X12" FULL HEIGHT TILES FOR SHOWERS.
- 15 3"X6" CERAMIC TILE COVE BASE WITH A 3/8" RADIUS. ARCTIC WHITE.
- SHOWER FLOOR: 12"X12" SLIP RESISTANT CERAMIC TILE FLOOR. PER
 11B-608.9. SLOPE SHALL BE MAX. 1:48 IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, THE GRATE SHALL HAVE OPENINGS 1/4" MAX. AND LOCATED FLUSH W/THE FLOOR SURFACE. COVE BASE 3/8" RADIUS.
- MATER CLOSET TO CONFORM WITH CAL. AND ADA CODES. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS.
- 18 GRAB BAR: PER PLAN. HEIGHT AS NOTED.
- 19 LAVATORY TO CONFORM WITH CAL AND ADA CODES. HOT WATER AND DRAIN PIPES TO BE INSULATED.
- 20 SOAP DISPENSER, UNDERSINK MOUNTED.
- 21 TOILET PAPER DISPENSER PER CBC 11B-604.7. 22 SANITARY NAPKIN DISPENSER.
- 23 COMBINATION PAPER TOWEL DISPENSER / WASTE BIN.
- 24 URINAL MIN. 13.5" DEEP TO CONFORM WITH CAL AND ADA CODES.
- RESTROOM COUNTERTOP: QUARTZ SLAB, ADA COMPLIANT WITH 4" BACKSPLASH, AND UNDER-COUNTER CHINA LAVATORIES. PROVIDE SAFETY COVERS FOR SUPPLY AND DRAIN PIPES.
- 26 FLOOR / WALL MOUNTED TOILET PARTITION.
- 27 WALL MOUNTED BABY CHANGING STATION: PER FLOOR PLAN.
- 28 DECORATIVE WOOD BEAM: SEE REFLECTED CEILING PLAN.





DRINK. FOUNTAIN





 \bigcirc



 (\mathbf{P})

Q

+X

INT. KEYNOTES (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)



- 2 GYP. BOARD SOFFIT.
- 3 KITCHEN SINK WITH GARBAGE DISPOSAL, PER PLAN.
- 4 REFRIGERATOR SPACE PER FLOOR PLAN.
- 5 DISHWASHER: STAINLESS STEEL, 24" WIDE CLEAR.
- 6 FOLDING SEAT, PER CBC 11B-608.4, 11B-610.
- FLEXIBLE SHOWER SPRAY HOSE 59" LONG MIN. 48" MAX. TO TOP OF MOUNTING BRACKET FROM SHOWER FLOOR. PER CBC 11B-608.6
- 8 SHOWER HEAD: PER PLAN.
- q
 CABINETS: 4" HIGH X 3" DEEP TOE SPACE.
 10 WALL MOUNTED MIRROR: FIXED PLATE GLASS, 8' A.F.F. (U.N.O.).
- 1 1 EXTERIOR PLASTER SOFFIT.
- 12 EXTERIOR SIDING FINISH.
- 13 DRINKING FOUNTAIN, PER CBC 11B-602. STAINLESS STL. MODEL: PER PLAN
- 14CERAMIC WALL TILE OVER CEMENT BACKER BOARD 0/ 15# ASPHALT
PAPER. 9"X12" TILE WAINSCOT FOR RESTROOM (INTERIORS); 9"X12"
FULL HEIGHT TILES FOR SHOWERS.
- 15 3"X6" CERAMIC TILE COVE BASE WITH A 3/8" RADIUS. ARCTIC WHITE.
- SHOWER FLOOR: 12"X12" SLIP RESISTANT CERAMIC TILE FLOOR. PER
 11B-608.9. SLOPE SHALL BE MAX. 1:48 IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, THE GRATE SHALL HAVE OPENINGS 1/4" MAX. AND LOCATED FLUSH W/THE FLOOR SURFACE. COVE BASE 3/8" RADIUS.
- MATER CLOSET TO CONFORM WITH CAL. AND ADA CODES. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS.
- 18 GRAB BAR: PER PLAN. HEIGHT AS NOTED.
- 19 LAVATORY TO CONFORM WITH CAL AND ADA CODES. HOT WATER AND DRAIN PIPES TO BE INSULATED.
- 20 SOAP DISPENSER, UNDERSINK MOUNTED. 21 TOILET PAPER DISPENSER PER CBC 11B-604.7.
- 22 SANITARY NAPKIN DISPENSER.
- 23 COMBINATION PAPER TOWEL DISPENSER / WASTE BIN.
- 24 URINAL MIN. 13.5" DEEP TO CONFORM WITH CAL AND ADA CODES. RESTROOM COUNTERTOP: QUARTZ SLAB, ADA COMPLIANT WITH 4" BACKSPLASH, AND UNDER-COUNTER CHINA LAVATORIES. PROVIDE SAFETY COVERS FOR SUPPLY AND DRAIN PIPES.

26 FLOOR / WALL MOUNTED TOILET PARTITION.

27 WALL MOUNTED BABY CHANGING STATION: PER FLOOR PLAN. 28 DECORATIVE WOOD BEAM: SEE REFLECTED CEILING PLAN.

____ 8 11 —4"\ OPEN OPEN SHOWERS R



Alignment of the second stress of the second secon Second sec





FLATWORK KEYNOTES 1 EDGE OF CURB / SLAB EDGE TYPICAL - VERIFY WITH STRUCTURAL DRAWINGS. 2 SLAB WITH SLOPE FOR DRAINAGE. 3 HARDSCAPE WITH SLOPE. SEE LANDSCAPE DRAWINGS. 4 UTILITY CLOSET SLAB TO BE COMPLETED AFTER UTILITY INSTALLATIONS. 6' HIGH CAST IN PLACE CONCRETE WALL X4X4/



F:\2022\2022\14 HOMEFED CORP Cota Vera Swim Club\2022014 CD_CD REVIT\2022014 CD - COTA VERA SWIM CLUB.rvt







2022/2022014 HOMEFED CORP Cota Vera Swim Club/2022014 CD_CD REVIT/2022014 CD - COTA VERA SWIM CLUB.rvt





F:\2022\2022\2022014 HOMEFED CORP Cota Vera Swim Club\2022014 CD_CD REVIT\2022014 CD - COTA VERA SWIM CLUB.rvt











ATTIC VENT CALCS

| OFF | FICE | | | |
|---------|--------------|--------------------------|--------|------------|
| R1 | | | | |
| ROOF AF | REA: | | 174528 | S.I. |
| REQUIRE | ED AT LIC VE | NTILATION: (1/300) | 581.76 | S.I. |
| PROVIDE | D ATTIC VEI | | | |
| HIGH: | (4) | O'HAGIN @ 64.8 S.I EA. = | 259.2 | S.I. |
| LOW: | (5) | O'HAGIN @ 64.8 S.I EA. = | 324 | S.I. |
| | | | | |
| TOTAL | | | 583.2 | S.I. |
| | 2 | | | |
| R2 | | | | |
| | | | | |
| ROOF AF | REA: | | 47952 | S.I. |
| REQUIRE | D ATTIC VE | NTILATION: (1/150) | 319.68 | S.I. |
| | | | | |
| PROVIDE | | | 610 | 01 |
| | (5) | TPO VEINT @ 122 S.TEA | 010 | 5.1. |
| | 2 | | 610 | SI |
| | | | 010 | 0 |
| | | OMOL DOOL | | |
| KE: | SIRU | | EQUI | -IVIE |
| | | | 44 | |
| R3 | | | | |
| | | | | - |
| | | | 284052 | <u>e</u> 1 |
| REQUIRE | | NTILATION: (1/300) | 946 84 | SI |
| | | | | |
| PROVIDE | D ATTIC VEI | NTILATION: | | |
| HIGH: | (6) | O'HAGIN @ 64.8 S.I EA. = | 388.8 | S.I. |
| LOW: | (9) | O'HAGIN @ 64.8 S.I EA. = | 583.2 | S.I. |
| TOTAL | | | 070 | 01 |
| IUTAL | | | 972 | 5.1. |
| | | | | |

VENTS:



| ECTION 2 | | SCALE 3/16" = 1'-0" |
|--|--------|---------------------|
| | LEGEND | |
| | | |
| | | |
| | | |
| GYPSUM BOARD ATTACHMENT | | |
| 1. CEILINGS TO BE NAILED AT 7" O.C. OR SCREWED AT | | |
| 2. WALLS TO BE NAILED AT 8" O.C. OR SCREWED AT 12" O.C. | | |
| | | |
| | | |
| INSULATION SCHEDULE | | |
| ROOF INSULATION = R-30 | | |
| 2x4 WALL INSULATION = R-13 | | |
| 2x6 WALL INSULATION = R-19 | | |
| FLOOR / CEILING INSULATION= R-19 | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



METAL AMNING: PER DETAILS.

19 6' HIGH CAST-IN-PLACE CONCRETE WALL.

20 6" HIGH CONCRETE CURB: SEE FLAT WORK PLAN.

18 POOL GATE/ FENCE: SEE LANDSCAPE ARCHITECT DWGS.

LL_



| CTION 5 | SCALE 3 | 3/16'' = 1'-0' |
|--|---------|----------------|
| | LEGEND | |
| | | |
| | | |
| | | |
| 1. CEILINGS TO BE NAILED AT 7" O.C. OR SCREWED AT | | |
| 12" O.C. 2. MALLS TO BE NAILED AT 8" O.C. OR SCREMED AT 12" O.C. | | |
| | | |
| INSULATION SCHEDULE | | |
| ROOF INSULATION = R-30 | | |
| 2x4 WALL INSULATION = R-13 CONFIRM | | |
| $2 \times 6 \text{ WALL INSULATION} = R - 19$ | | |
| FLOOR / CEILING INSULATION= R-19 | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |





| LEVATION (WEST) | | SCALE 3/16" = 1'-0' |
|-----------------|--|---|
| | ELEVATION NOTES | LEGEND |
| | ALL DETAIL REFERENCES ARE TYPICAL AND APPLY TO SMAILAR CONDITIONS WHETHER SPECIFICALLY REFERENCED QBT. ALL DIMENSIONS ARE TO BE FACE OF FRAMING UNLESS NOTHER VISE. ALL MINDOWS REQUIRED FOR EMERGENCY EXITING PER GBALL BE VERIFIED BY THE WINDOW SUBCONTRACTOR, AND THECHTECT SHALL BE NOTFIED IMMEDIATELY IF ANY REVENDED SIZES ARE REQUIRED PRIOR TO START MENSTERVATING SWALL BE FOAM OVER SCRATCH 4 BROWN COAT W/ FINISH PLASTER COAT PAINTED CONTRASTING COLOR UNLESS OTHERWISE NOTED OR DETAILED. | ASPHALT SHINGLE ROOFING: CERTAINTEED COMPOSITION SHINGLE ROOFING, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. EXTERIOR CEMENT PLASTER FINISH: INTEGRAL COLOR FINISH TEXTURE: LIGHT SAND CORNER CONDITION: BULLNOSE CORNER BEAD BOARD AND BATTEN SIDING: HARDI PANEL VERTICAL SIDING. 1X4 BATTEN #16° OC SMOOTH FINISH, INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. HARDIE ARTISAN REVEAL PANEL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. LOCATION OF WOOD TRIM AND WOOD PANEL |





| ELEVATION (EAST) | | SCALE 3/16" = 1'-0" |
|------------------|--|--|
| (| ELEVATION NOTES | LEGEND |
| | ALL DETAIL REFERENCES ARE TYPICAL AND APPLY TO SHALLAR CONDITIONS WHETHER SPECIFICALLY REFERENCED RGT. ALL DIMENSIONS ARE TO BE FACE OF FRAMING UNLESS NOTHER MISE. ALL WINDOWS REQUIRED FOR EMERGENCY EXITING PER GRALL BE VERIFIED BY THE WINDOW SUBCONTRACTOR, AND XMCHITECT SHALL BE NOTIFIED IMMEDIATELY IF ANY ROWNROWS SIZES ARE REQUIRED PRIOR TO START CANTENNING WINT SHIM SHALL BE FOAM OVER SCRATCH & BROWN COAT W/ FINISH PLASTER COAT PAINTED CONTRASTING COLOR UNLESS OTHERWISE NOTED OR DETAILED. | ASPHALT SHINGLE ROOFING: CERTAINTEED COMPOSITION SHINGLE ROOFING, OR APPROVED EQUAL: INSTALL PER MANUFACTURER'S PUBLIGHED RECOMMENDATIONS. EXTERIOR CEMENT PLASTER FINISH: INTEGRAL COLOR FINISH TEXTURE: LIGHT SAND CORNER CONDITION: BULLNOSE CORNER BEAD BOARD AND BATTEN SIDING: HARDI PANEL VERTICAL SIDING: 1X4 BATTEN @16'' OCSMOOTH FINISH. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. HARDIE ARTISAN REVEAL PANEL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. LOCATION OF WOOD TRIM AND WOOD PANEL |

L a







| F.P. KEYNOTES |
|---|
| OUTLINE OF FLOOR ABOVE OR BELOW. FLOOR MATERIAL TRANSITION. FLOOR DRAIN. TANK-LESS WATER HEATER: PER ENERGY COMPLIANCE: RINNA IRRIGATION CONTROL/ FIRE ALARM. UTILITY EQUIPMENT PANELS: VERIFY LOCATION WITH UTILITY CO LOW VOLTAGE CONTROL CABINETS. |
| B ELECTRICAL METER/ MAIN PANEL : VERIFY LOCATION WITH UTI GAS METER: VERIFY LOCATION WITH UTILITY CO. A/C CONDENSER W/ CONCRETE PAD ATTIC FAU: LOCATE WITHIN 20' OF ATTIC ACCESS OPENING. 30"X30" CEILING MOUNTED ATTIC ACCESS PANEL. METAL FENCE/ GATE. SEE LANDSCAPE DRAWINGS FOR DETAIL CAST-IN-PLACE CONCRETE PER ELEVATIONS. KITCHEN COUNTERTOP: QUARTZ SLAB. 4"X16" TILE BACKSPLA VERIFY WITH INTERIOR DESIGNER DRAWINGS. CABINETS: 4" HIGH X 3" DEEP TOE SPACE. VERIFY WITH INTERIOR |
| 17 CABINETS: 4 HIGH X 3 DEEP TOE SPACE. VERIFY AITH INTERIO DESIGNER DRAWINGS. 17 SINK: 33" X 18" UNDERMOUNT STAINLESS STLDOUBLE BOWL KO K3996-4-NA. W/ GARBAGE DISPOSAL: INSINKERATOR. FAUCE S71409. VERIFY WITH INTERIOR DESIGNER DRAWINGS. 18 REFRIGERATOR (N.I.C.): . 32" WIDE CLEAR - VERIFY WITH INTERIOR DESIGNER DRAWINGS. 19 ABOVE-THE-COUNTER MICROWAVE OVEN. 20 WALL-MOUNTED DOUBLE DRINKING FOUNTAIN, HIGH & LOW: PER CBC SECTION 1139A. 21 RESTROOM COUNTERTOP: QUARTZ SLAB. DESIGNER: 4" BACK AND RECTANGULAR UNDERMOUNT LAV: KOHLER K2297-0. FA MOENTE 193 OR FOUNT |
| MOEN T6193 OR EQUAL. 22 6" CMU WALL AT TRASH ENCLOSURE. 23 SHOWERHEAD: MOEN T2702EP. OR EQUALMOUNT AT 72" A.F.F 24 ADA SHOWERHEAD: MOEN 3887EP; TRANSFER VALVE: MOEN 25 SHOWER WALLS:9"×12" WALL TILE FULL HEIGHT. 12"×12" FLOOR 26 WATER CLOSET: KOHLER K-72516-NA. PROVIDE 18" FROM W CENTERLINE OF FIXTURE @ ACCESSIBLE TOILET COMPARTMEN 27 URINAL: KOHLER K4991-ET-O. 28 TOILET PAPER HOLDER. 29 RE-SAWN WOOD: BEAM / POST 30 NOT USED. |
| 31 HARDSCAPE: PER LANDSCAPE. 32 TRASH/RECYCLING CONTAINER. 33 8" CMU WALL WITH STACK BOND. 34 SUFFICIENT MANEUVERING SPACE: 60" DIAMETER TURNING SPA PROVIDED. 35 GRAB BAR PER CBC 1 1B-604.5, 1 1B-604.8.2.3, 1 1B-608.3, SEE INTERIOR ELEVATIONS. 36 FIXED MIRROR: HEIGHT AS NOTED ON INTERIOR ELEVATIONS. 31 FLOOR/WALL MOUNTED TOILET PARTITION: BOBRICK STAINLE 38 TOILET SEAT COVER DISPENSER. |
| 39 PAPER TOWEL DISPENSER: POOL RESTROOM BOBRICK B-39 40 PAINTED METAL POST AT TRASH ENCLOSURE. 41 WALL-MOUNTED BABY CHANGING STATION W/ 30"x48" CLEAR SPACE. 48" MAX. TO OPERABLE PORTION. 34" MAX. TO TOP SL 21" MIN. TO BOTTOM. 42 MOP SINK. 43 HOSE BIBB. 44 FIRE EXTINGUISHER 2A RATED INSIDE DEDICATED CABINET. SE 45 EGRESS DOOR: INSTALL HORIZONTAL TOUCH BAR EXIT HARDA MONARCH 25L/S 10 TRIM 6 13 PANIC W/ CYLINDER. 46 SOAP DISPENSER, SINK UNDERMOUNT. |
| |
| FLOOR PLAN NOTES |
| ALL DIMENSIONS TO FACE OF STOD (1.0.3.) U.N.S. WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAW SUBCONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY DEVELOPER OR A OF ANY INCONSISTENCIES. REFER TO BUILDING SECTIONS AND INT. ELEV. FOR CLARIFIC, DIMENSIONS OF SOFFITED AREAS AND POTSHELVES. ALL WINDOWS TO HAVE VINYL FRAMES. SEE EXTERIOR ELEN FOR DIRECTION OF OPERATION AND LOCATION OF MUNTIN B OPERABLE WINDOWS TO HAVE SCREENS). ALL GLASS IN DOORS AND SLIDING GLASS DOORS TO BE THE STOR STOR AND SLIDING GLASS DOORS TO BE THE SCREENS. |
| PROVIDE TEMPERED GLASS WHERE BOTTOM EDGE IS LESS TROM WALKING SURFACE AT 1) STAIRWAYS, 2) SHOWERS AN AND 3) WITHIN A 24" ARC OF A DOOR IN CLOSED POSITION (C 6. REFER TO INTERIOR ELEVATIONS DESIGNATED BY THIS SYM 7. SHOWERS AND TOILETS FOR BATHERS TO BE PROVIDED WIL AND COLD WATER AND NOT TO EXCEED 110*F AND NOT AD BY BATHERS. 8. HOSE BIBB TO BE PROVIDED WITH POTABLE WATER AND BA PREVENTION. 9. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM T EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOW EFFORT |
| 10. MAIN ENTRANCE TO INCLUDE SIGN FIXED TO DOOR THAT R FOLLOWING: "THIS DOOR IS TO REMAIN UNLOCKED WHEN BUIL OCCUPIED." |
| WALL LEGEND |
| PARTTIAL HEIGHT 2x4 STUD WALL 2x4 STUD WALL XXX PARTIAL 2x6 STUD WALL XXX PARTIAL 2x6 STUD WALL XXX SOFFIT OR ARCH SOFFIT - SEE INTERIOR OR EXTERIOR ELEVATIONS FOR HEIGHT |
| |





| ¢G | | | | |
|--------|--------------------|----------|-----------------------------|---|
| FASCIA | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | SCALE 1/4" = 1'-0" | 2 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | SCALE 1/4" = 1'-0" | 4 | TRASH ENCL. REAR ELEVATION | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | ^ | | |
| | SCALE 1/4" = 1'-0" | 6 | IRASH ENCL. FRONT ELEVATION | N |







2022/2022014 HOMEFED CORP Cota Vera Swim Club/2022014 CD_CD REVIT\2022014 CD - COTA VERA SWIM CLUB.rv

| HARDBOARD SIDING O' BLDG, PAPER(5) - SEE EXT ELEV. BUILDING PAPER(5) - LAP O' FLASHING, WITH CLOSED ENDS AT EDGES OF MOOD TRIM. 1-1/2 ² MEMBRANE FLASHING. 1/2 ² 26 GAUGE BONDERIZED METAL 4 PLASHING WITH CLOSED PATTER AT EDGES OF MOOD TRIM. 1-1/2 ² MEMBRANE FLASHING. 1/2 ² 26 GAUGE MAT 12 ⁹ OC. MITH 3 ⁴ MIN EMBEDMENT - PREDRILL AND FILL HOLES WITH SEALANT. 1/2 ³ 20 ISOGEDETOS T METAL AWWNING AT WINDOW HDD. METAL AWWNING AT WINDOW HDD. | Image: constraint of the second se | DOOD3367 |
|---|---|--|
| PLOOD BASED SHEATHING. (MHERE OCCURS) 2X PER FRAMING FLAN. SY PER FRAMING FLAN. SY PER FRAMING SHLAR DOOR CASING. DOOR CASING. DOOR FLASHING SHLAR PLASTER STOP. DOOR FRAME PRIME SIDES AND EDGES PRIOR TO INSTALLATION. SOLID STOCK PLASTER STOP SET IN SEALANT. CAULK PRIOR TO COLOR COAT HER PRIME SIDES AND EDGES PRIOR TO INSTALLATION. SOLID STOCK PLASTER STOP SET IN SEALANT. CAULK PRIOR TO COLOR COAT HER PLAN HER PLAN STERVINATE IN PLASTER STOP. | t" MIDE STANDARD MINDOW FLASHING OVER TOP FLANDE OF VENT AND DUIDING PAPER(S) OVER FLASHING UIDING PAPER(S) OVER FLASHING HARDBOARD SIDING PER EXT. ELEV. OV BLDG. PAPER(S). GAULKING. 2 X RE/S TRIM PER EXTERIOR ELEVATIONS. 1/4" MIRE MESH SOREEN BEHIND LOUVER 26 GA BONDEXIZD LOUVER VENT- SIZE AD EVENT JAMB | DOOO3366 DOOR JA |
| | | T.O. CONCRETE A A A A A A A A A A A A A |
| | | |













| イ | |
|--|--|
| 2 | |
| ш | |
| \supset | |
| Ļ | |
| O | |
| Σ | |
| \geq | |
| Š | |
| 0) | |
| ≤ | |
| <u>r</u> | |
| Щ. | |
| _ | |
| _< | |
| 5 | |
| R | |
| <u> </u> | |
| $\dot{}$ | |
| 吕 | |
| | |
| 44 | |
| ò | |
| 2 | |
| 8 | |
| Ñ | |
| F | |
| 1 | |
| ш | |
| R | |
| $\overline{}$ | |
| 吕 | |
| U | |
| 5 | |
| 님 | |
| $\stackrel{\circ}{\rightarrow}$ | |
| 4 | |
| Ó | |
| 2 | |
| 22 | |
| 0220 | |
| 20220 | |
| b\20220 | |
| lub/20220 | |
| Club/20220 | |
| m Club/20220 | |
| vim Club/20220 | |
| Swim Club/20220 | |
| Swim Club/20220 | |
| ra Swim Club/20220 | |
| /era Swim Club/20220 | |
| Vera Swim Club/20220 | |
| ta Vera Swim Club\20220 | |
| Cota Vera Swim Club/20220 | |
| Cota Vera Swim Club/20220 | |
| P Cota Vera Swim Club/2022 | |
|)RP Cota Vera Swim Club/20220 | |
| ORP Cota Vera Swim Club/2022 | |
| CORP Cota Vera Swim Club/20220 | |
| D CORP Cota Vera Swim Club/20220 | |
| ED CORP Cota Vera Swim Club/2022 | |
| FED CORP Cota Vera Swim Club/20220 | |
| AEFED CORP Cota Vera Swim Club/2020 | |
| MEFED CORP Cota Vera Swim Club/2020 | |
| 10MEFED CORP Cota Vera Swim Club/2020 | |
| HOMEFED CORP Cota Vera Swim Club/2020 | |
| 14 HOMEFED CORP Cota Vera Swim Club/2020 | |
| 014 HOMEFED CORP Cota Vera Swim Club/2020 | |
| 2014 HOMEFED CORP Cota Vera Swim Club/2020 | |
| 322014 HOMEFED CORP Cota Vera Swim Club/2020 | |
| 2022014 HOMEFED CORP Cota Vera Swim Club/20220 | |
| 2\2022014 HOMEFED CORP Cota Vera Swim Club\20220 | |
|)22\2022014 HOMEFED CORP Cota Vera Swim Club\20220 | |

F:\2 All

| DODO3623 AC LINE SET AT WALL |
|---------------------------------|
| SILL DOGODESS |
| |
| |
| |





C.V. DWG. 19036 (OTV8 IMP. PLANS, PHASE 2)

| Date | | BENCH MARK | SCALE | Designed By | Drawn By | Checked By | Submitted | | CITY OF CHULA VISTA | ENGINEERING DIVISION |
|------|--|--|-------------------|----------------|---------------------|------------|-----------|---------------|----------------------|----------------------|
| | ALLOWABLE SDCITY ENGR RD. ON ROC 17.00' SOUTH | TOLERANCE BASED ON FIELD SURVEY USING BRASS DISK MARKED R. IN IRON PIPE 1.5 MILES EAST OF INT. OF MAIN ST. & HERITAGE CK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & HERIY OF WATER STORAGE FACILITY (PT #1359 PER POS | Horizontal N/A | Plans Prepared | Under Supervision C | A.S.V. | By | By | PRECISE GRADING FOR: | WIM CLUB |
| | 14841)ELV=6 | -628.319(NAVD 88) | Vertical N/A | YOLANDA CALVO | Date R.C.E. No | 61827 | Office | City Engineer | OTAY RANCH VILLAGE | 2 8 WEST (LOT 27) |

| IIR | | LEGEND | NOTES: |
|--------------|--|---|---|
| | | RIGHT OF WAY/PROPERTY LINE | 1. FOR ROUGH CITY OF CHU |
| | | EASEMENT | CITY OF CHUL |
| (LOIZI) | | BACKFLOW PREVENTOR REQUIRED | 2. STREET, CUR |
| () | 1A | PLAN NUMBER (R=REVERSE) | ACTUAL ELEN |
| | 2 | BUILDING NUMBER | 3 FOOTPRINTS |
| | P=460.7 | PAD ELEVATION | RECEIVED F 01/05/23 |
| | FF=461.37 | FINISH FLOOR ELEVATION | 4. DRIVEWAY PA |
| | GFF=460.87 | GARAGE FINISH FLOUR ELEVATION (FRONT) | STREET |
| | HP <u>305.25</u> FS | HARDSCAPE FINISH SURFACE ELEVATION | 5. ADDRESS SHA ACCORDANCE VISTA MUNICIF |
| | XXX.X TG XXX.X FL | DRAINAGE SWALE (1.0% MINIMUM) | 6. APPROVED E |
| | $\begin{array}{c} XXX.X \ CO = \implies 0 = = \\ XXX.X \ FL \end{array}$ | PVC AREA DRAIN (SIZE PER PLAN) & GRATE | DRAINAGE PIF THE ELEVATIO |
| | | PVC AREA DRAIN (SIZE PER PLAN) & CLEANOUT | COVER. |
| | <u>0.4'S.W.</u> | STEM WALL (DEP DIAN) | 7. BACKFLOW PR |
| | 100 | STEM WALL (FER FLAN) | LOOSENED GE |
| | 100 | PROPOSED CONTOUR | 9. SEWER CLEAN CONSTRUCTION |
| | γ-γ-γ | SLOPE 2:1 OR FLATTER | 10 ALL PROPERT |
| | ے _ا ل | (SLOPE <4' EQUALS 1.5:1 AS NOTED) | AND BUILDING |
| | 1 7% | DAYLIGHT LINE (LIMITS OF GRADING) | 11 SURFACE WAT |
| | 1.770 | DRIVEWAY GRADE | 2% MINIMUM |
| | | RETAINING WALL (PER C.V. DWG) | 12. SEWER SYSTE |
| | <u> 100.5 TW</u> 100.0 TF | RETAINING WALL TOP OF WALL/FOOTING ELEVATION | 13. MINIMUM DIST. FOOTING TO L |
| Ξ | XXX.X TLW | TOP OF LANDSCAPE WALL | 14. ASSESSOR'S F |
| | W | EXISTING WATER LINE | 15. BUILDER WILL |
| | S | EXISTING SEWER LINE | 16 THIS PROJECT |
| | (| EXISTING WATER LATERAL | BUILDING COE |
| | S | EXISTING SEWER LATERAL | RESIDENTIAL |
| | \bigcirc | EXISTING SEWER MANHOLE | CODE (2018) CALIFORNIA E |
| | \supset | EXISTING FIRE HYDRANT ASSEMBLY | (2016) CALIF (2016) CALIF |
| | QQ | EXISTING STREET LIGHT | PHOTOVOLTAIC 15 24 065 |
| | | ADA PATH OF TRAVEL | ORDINANCE SI |
| | | LANDSCAPE WALL PER LANDSCAPE PLAN | (1997) UNIF |
| | | | THEREFROM FNGINFER PRI |
| | | | 17. CONTACT |
| | | | (619)409–543 OVERHEAD VI |
| | | | NFPA 13D FII DWELLING UNI |
| | | | 18. BUILDING CO MUNICIPAL |
| | | | CLOTHES WAS STUB-OUT. |
| | | | |
| | | | |
| | l | H. | |
| | ب <i>ه</i> | | |
| | | | |
| | | | |
| N 644-072-10 | 4 | | |
| P NO. 15428 | 7 | | |
| | 50 0 50 | 0 100 150 | |
| | SCALE | 1"= 50' | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

H GRADING PLANS AND SPECIFICATIONS SEE HULA VISTA DWG. NUMBERS 18016 & 14011 DVEMENT PLANS AND SPECIFICATIONS SEE HULA VISTA DWG. NUMBERS 14012 & 19036 RB, & PAD ELEVATIONS ARE PER EXIST. SHOULD BE VERIFIED IN THE FIELD. IF EVATIONS VARY FROM THOSE SHOWN, ENGINEER OF WORK AT (858) 558-4500. ARE BASED UPON ARCHITECTURAL PLANS FROM STARCK ARCHITECTURE DATED AVING MATERIAL TO BE 4" P.C.C. MIN. HALL BE LOCATED ON BUILDING EXTERIOR IN DE WITH SECTION 12.48.030 OF THE CHULA CIPAL CODE. BACKWATER VALVE IS REQUIRED FOR PIPING SERVING FIXTURES LOCATED BELOW TION OF THE NEXT UPSTREAM MANHOLE PREVENTERS ARE BASED ON FF ELEV. PREVENTORS CAN BE SUBSTITUTED WITH A AN–OUTS ARE PER CITY OF CHULA VISTA ON STANDARD #20 (CVCS 20). RTY LINE (REAL OR ASSUMED), EASEMENTS INGS (BOTH EXISTING AND PROPOSED), ARE THIS SITE PLAN. TER WILL DRAIN AWAY FROM BUILDING AT GRADE.

EM IS PRIVATE UNLESS OTHERWISE NOTED. STANCE FROM BOTTOM OF RETAINING WALL DAYLIGHT IS 7'. PARCEL NUMBER: 644-072-07, 08 & 09 INSTALL PRESSURE REGULATORS ON ALL

CT SHALL COMPLY WITH (2016) CALIFORNIA CODE AS AMENDED BY CITY OF CHULA VISTA CODE TITLE 15, (2016) CALIFORNIA CODE, (2016) CALIFORNIA MECHANICAL 6) CALIFORNIA PLUMBING CODE, (2016) ELECTRICAL CODE, (2016) CALIFORNIA FIRE) CALIFORNIA GREEN BUILDING STANDARDS, FORNIA ENERGY CODE, CITY OF CHULA ASED ENERGY EFFICIENCY ORDINANCE, THE PRE-WIRING ORDINANCE SECTION SOLAR WATER HEATING PRE-PLUMBING SECTION 15.28.015, (2000)URBAN-WILDLAND CODE, (1997)UNIFORM HOUSING CODE, FORM CODE FOR THE ABATEMENT OF BUILDINGS. ANY CHANGES OR REVISIONS SHALL BE APPROVED BY THE CITY PRIOR TO ANY REQUEST FOR INSPECTION.

UB

 \cup $\overline{}$

SWI

RANCH VILLAGE 8 WEST, PRECISE GRADING PL

ОТАУ

THE BUILDING DEPARTMENT AT 5434 TO SCHEDULE FIRE SPRINKLER VISUAL, HYDROSTATIC AND FINAL FOR ALL FIRE SPRINKLER SYSTEMS IN SINGLE FAMILY

CONSTRUCTION SHALL ALSO COMPLY WITH CODE SECTION 15.28.020 REGARDING ASHER GRAY WATER PRE-PLUMBING AND



PLANNING 9707 Waples Street ENGINEERING San Diego, Ca 92121

SURVEYING PH(858)558-4500 · FX(858)558-1414 TOTAL NUMBER OF SHEETS = 4 C01

ACT. NO.

THRU



| R:\1753\&Eng\Precise | Grading\1753\$PG02.dwg[]Jan-13-2023:16:54 |
|----------------------|---|
| • | 0 |

| Date | App'd | BENCH MARK | SCALE | Designed By | Drawn By | Checked By | |
|------|-------|---|------------|---------------|------------|------------|--|
| | | DESCRIPTION: TOPOGRAPHY CONF I RMED BY HUNSAKER TO BE WITHIN | Harizantal | Y.C. | S.M.L. | A.S.V. | |
| | | SDCIVITE LIGE IN IRON PIPE 1.5 MILES EAST OF INT. OF MAIN ST. & HERITAGE 1"=20" Plans Prepared Under Supervision Of | | | | | |
| | | 1700' SOUTHERLY OF WATER STORAGE FACILITY.(PT.#1359 PER ROS | Vertical | | Date | | |
| | | 14041)ELV=020.319(NAVD 00) | 1"=20' | YOLANDA CALVO | R.C.E. No. | 61827 | |



R:\1753\&Eng\Precise Grading\1753\$PG03.dwg[]Jan-13-2023:16:55

| Date App'd BENCH MARK | SCALE | Designed By | Drawn By | Checked By | | | CITY OF CHULA VISTA | ENGI |
|---|------------|----------------|---------------------|------------|-----------|---------------|----------------------|-------------------------------|
| DESCRIPTION: TOPOGRAPHY CONF I RMED BY HUNSAKER TO BE WITHIN | Horizontal | Y.C. | S.M.L. | A.S.V. | Submitted | Approved | | |
| SDCITY ENGR. IN IRON PIPE 1.5 MILES EAST OF INT. OF MAIN ST. & HERITAGE | 1"=10' | Plans Prepared | d Under Supervision | Of | Bv | By | PRECISE GRADING FOR: | |
| 1700' SOUTHERLY OF WATER STORAGE FACILITY.(PT.#1359 PER ROS | Vertical | | Date | | | City Engineer | | COTA VERA SWIM CLUB |
| 14841)ELV=628.319(NAVD 88) | 1"=10' | YOLANDA CALVO | | 61827 | Office | , , , | ΟΤΑΥ | 7 RANCH VILLAGE 8 WEST (LOT 2 |
| | | | | | | | | |

| 30 | |
|---|---|
| No. 61 | 827 |
| PLANNING ENGINEERING SURVEYING HUU & A S A N 9707 Wa San Dieg PH(858) | NSAKER SSOCIATES DIEGO, INC aples Street go, Ca 92121 558-4500 · FX(858)558-1414 |
| INEERING DIVISION | - C03 |
| 27) | ACT. NO THRU |

| | 43.14' | 8" PVC |
|---------|---------|---------|
| | | |
| SEWER I | DATA | |
| RADIUS | LENGTH | REMARKS |
| | 260.19' | 8" PVC |
| | 77.49' | 8" PVC |
| | 6.61' | 6" PVC |
| | | |
| | | |

| | 200.00 | 15.25 | Z COPPER |
|-----------|--------------------|--|-----------------------------|
| | | 2.46' | 2" COPPER |
| | | 190.84' | 2" COPPER |
| | | 5.52' | 2" COPPER |
| | | 231.19' | 6" PVC |
| | | 41.14' | 6" PVC |
| | | | |
| WA | ATER DAT | A (FIRE) | |
| WA _TA | ATER DAT RADIUS | A (FIRE) | REMARKS |
| WA _TA | ATER DAT RADIUS | A (FIRE) LENGTH 233.19' | REMARKS 8" PVC |
| WA LTA | ATER DAT | A (FIRE) LENGTH 233.19' 43.14' | REMARKS 8" PVC 8" PVC |

| | WATER DATA | | | | | | | |
|------------------|------------|---------|-----------|--|--|--|--|--|
| | RADIUS | LENGTH | REMARKS | | | | | |
| | | 2.65' | 2" COPPER | | | | | |
| | 200.00' | 15.25' | 2" COPPER | | | | | |
| | | 2.46' | 2" COPPER | | | | | |
| | | 190.84' | 2" COPPER | | | | | |
| | | 5.52' | 2" COPPER | | | | | |
| | | 231.19' | 6" PVC | | | | | |
| | | 41.14' | 6" PVC | | | | | |
| ATER DATA (FIRE) | | | | | | | | |
| | RADIUS | LENGTH | REMARKS | | | | | |

SWI RANCH VILLAGE 8 WEST, PRECISE GRADING PL ΑY UT U



R:\1753\&Eng\Precise Grading\1753\$PG04.dwg[]Jan-13-2023:16:56

| Dat | e App'd | BENCH MARK | SCALE | Designed By | Drawn By | Checked By | Submitted | | CITY OF CHULA VIST | TA EN |
|-----|---------|--|----------------------|---------------|-----------------------|------------|-----------|-----------------|----------------------|--------------------------------|
| | | ALLOWABLE TOLERANCE BASED ON FIELD SURVEY USING BRASS DISK MARKED SDCITY ENGR. IN IRON PIPE 1.5 MILES EAST OF INT. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & | Horizontal 1"=10' | Plans Prepare | d Under Supervision (| 0f | By | _ By | PRECISE GRADING FOR: | COTA VERA SWIM CLUB |
| | | 1700' SOUTHERLY OF WATER STORAGE FACILITY.(PT.#1359 PER ROS 14841)ELV=628.319(NAVD 88) | Vertical 1"=10' | YOLANDA CALVO | Date R.C.E. No. | 61827 | Office | — City Engineer | (| DTAY RANCH VILLAGE 8 WEST (LOT |





STANDARD NOTES AND SPECIFICATIONS

6.3 NAILING & HARDWARE SCHEDULE

I. GENERAL REQUIREMENTS: STEEL GRADES SHALL MEET OR EXCEED THE FOLLOWING ASTM GRADES UNC ARDWARE GRADES TYPEALL-THREADANCHOR BOLTHS BOLTS/ALL-THREADSNUTHEAVY HEX NUTPLATE WASHEGRADEA307 OR F1554 GR 36F1554 GR 36A449 OR A193 GR B7A563 GR AA194 GR 2HA36 ALL NAILS & HARDWARE EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED STEEL (PER ASTM A153 OR A653) MECHANICALLY-COATED GALVANIZED STEEL (PER ASTM B695), OR STAINLESS STEEL. 1.3. ALL METAL HARDWARE AND FASTENERS IN CONTACT WITH ACQ-C/D AND CBA-A & CA-B PRESSURE TREATED LUMBER SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER; COATING WEIGHTS PER ASTM A153. STAINLES STEEL PER ASTM F1667. FOR FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS, COATING WEIGHTS PER ASTM B695.

1.4. HOLES FOR BOLTS IN WOOD SHALL BE THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16". LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. ALL BOLTS & ANCHORS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. ALL BOLT AND LAG SCREWS SHALL BE TIGHTENED AT THE TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR COMPLETION OF CONSTRUCTION. BE TIGHTENED AT THE 1.5. SILL PLATE ANCHORS SHALL HAVE WASHERS PER SECTION 1.4. ALL OTHER BOLTS TO HAVE WASHERS PER TABLE

BELOW, UNO ON PLAN: BOLTED WOOD CONNECTIONS
 DIA METER
 1/2"Φ
 5/8"Φ
 3/4"Φ
 7/8"Φ
 I"Φ

 LLEABLE IRON WASHER
 2 1/2"Φ X 1/4"
 2 3/4"Φ X 5/16"
 3"Φ X 3/8"
 3 1/2"Φ X 7/16"
 4"Φ X 1/2"
 ¹ X 2¹¹ X 1/4¹¹ 2 1/2¹¹ X 2 1/2¹¹ X 1/4¹¹ 3¹¹ X 3¹¹ X 5/16¹¹ 3 1/2¹¹ X 3 1/2¹¹ X 3/8¹¹ 3 3/4¹¹ X 3 3/4¹¹ X 3/8¹¹ STEEL WASHER

HARDWARE 2.1. ALL JOIST HANGERS, STRAPS, HOLDOWNS, CLIPS, ANCHORS, ETC TO BE SIMPSON STRONG TIE. AT BUILDERS OPTION, UNITED STEEL PRODUCTS (USP) MAY BE SUBSTITUTED PER THE HARDWARE CONVERSION CHART BELOW. INSTALL ALL HARDWARE AND FASTENERS PER MANUFACTURERS SPECIFICATIONS AS REQUIRED TO ACHIEVE FULL LOAD VALUES, UNO. 2.2. HOLDOWN STRAP TO BUCKET SUBSTITUTIONS: NAIL ON HOLDOWN STRAPS BETWEEN FLOORS MAY BE REPLACED WITH (2 HOLDOWNS, (1) ABOVE FLOOR SYSTEM AND (1) INVERTED BELOW FLOOR SYSTEM. USE FI554 ALL-THREAD ROD BETWEEN

| HOL | HOLDOWNS & HOLDOWN POST SPECIFIED ON PLANS. PERMISSIBLE SUBSTITUTIONS: | | | | | | | | | | | |
|------------|--|-----------|--|-------------------|----------------------------------|--|--|--|--|--|--|--|
| | BUCKET ALTERNATES FOR PLAN SPECIFIED HOLDOWN STRAPS | | | | | | | | | | | |
| STRAP | CS16, (2) CS16, OR CM | STC16 | MSTC66, MSTC78 OR CMST14 | | CMST12 | | | | | | | |
| BUCKET | HDU4 OR HTT5 W/ 5/8" | ¢ ROD | HDU8 W/ 7/8"Φ ROD | HDUII W/ I" Ø ROD | | | | | | | | |
| .3. CON | 3. CONNECTION ALTERNATES: | | | | | | | | | | | |
| | ALTERNAT | E CONNECT | TIONS 1 | 1 | ALTERNATE CONNECTIONS ARE NOT | | | | | | | |
| PLAN SPE | ECIFIED | ALTERNA | TE ² | 1. | INTERCHANGEABLE OR REVERSIBLE. | | | | | | | |
| 10d @ 4" (| OC (TO JOIST/BLK) | LTP4 OR | LTP5 @ 16" OC OR A35 @ 12" OC ³ | | CONTACT HSCGI FOR SPECIFICATIONS | | | | | | | |
| | | | | | NOT CHOUN | | | | | | | |

| (2 |) ROWS 10d @ | 6" OC | | LTP4 OR LTF | P5 @ 12" OC OF | R A | 35 @ 8" <i>O</i> C ³ | | NOT SH | OM | N. | |
|-----|--------------|--------------|-----|--------------|---------------------------------------|------|---------------------------------|-------|---------|-------------|---------------|----------------|
| 160 | @ 6" OC 4 | | | LTP4 OR LTF | LTP4 OR LTP5 @ 16" OC OR A35 @ 12" OC | | | | | ARE F (| e manufactur | PED 1- 1015T |
| 160 | @4" OC4 | | | LTP4 OR LTF | LTP4 OR LTP5 @ 10" OC OR A35 @ 8" OC | | | | | TIC | N MAY ONLY E | BE USED |
| 160 | @ 3" OC 4 | | | LTP4 OR LTF | P5 @ 6" OC OR | A3 | 35 @ 6" OC | | WITH S | OLI | D SAWN OR SC | L BLOCKS. |
| A3 | 5 | | | LTP4 OR LTF | P5 @ SAME SP. | ACII | NG | 4. | WHERE | PL | ANS/DETAILS | SPECIFY |
| LT | P4 OR LTP5 @ | 24" OC | | A35 @ 16" OC | ; | | | | BACKING | с А с т | TOP PLATE | BACKING, |
| LT | P4 OR LTP5 @ | 16" OC | | A35 @ 12" OC | ; | | | | MEMBER | ξ Α | LIGNS WITH TH | E TOP |
| LT | P4 OR LTP5 @ | 12" OC | | A35 @ 8" OC | | | | | PLATES | , C | LIPS MAY BE | INSTALLED |
| LT | P4 | | | LTP5 @ SAM | SAME SPACING DIRECTLY FROM MEME | | | | | FROM MEMBER | TO PLATES. | |
| 2.4 | . HARDWARE | CONVERSION (| СНА | RT: | | | | • | | | | |
| | | | | - | HARDWARE CO | NVE | ERSION CHART | | | | | |
| | SIMPSON | USP | | SIMPSON USP | | | SIMPSON | | USP | | SIMPSON | USP |
| | LUS24 | JUS24 | S | U414 | SUH414 | | C516 | RS150 |) | | A34 | MP34 |
| | HUS26 | HUS26 | Ř | IUS1.81/14 | THF17140 | | CMSTC16 | CMST | -CI6 | ω | A35 | MPAI |
| | HU412-MAX | HD412 | U | IUS2.37/14 | THF23140 | | CMST14 | CMST | -14 | Ľ | LTP4 | MP4F |
| | HU414-MAX | HD4I4 | ₹ | ITSI.81/14 | TFLI7I4 | _ v | CMST12 | CMST | -12 | 렁 | LTP5 | MP6F |
| | HU416-MAX | HD416 | I | ITS2.37/14 | TFL2314 |] ₫ | MSTA36 | MST/ | 436 | NG NG | HI | RTI5 |
| | HU68-MAX | HD68 | S | PC44 | PCM44 |] pŽ | MSTC28 | MSTO | 28 | | H2.5A | RT7A |
| 8 | HUGIO-MAX | HD610 | Ч | PC46 | PCM46 | 51 | MSTC40 | MSTO | 240 | Σ | H7 | RT20 |
| Ē | HUG12-MAX | HD612 | Ů | PC66 | PCM66 | | MSTC52 | MSTO | 52 | R4 | HTSI6 | HTWI6 |
| ž | HHUS410 | THDH410 | + | EPC44 | EPCM44 | | MSTC66 | MSTO | .66 | ш | MASA | FA4 @ 2X SILLS |

| Ξl | HHUS5.50/10 | THD610 | ől | EPC46 | EPCM46 | | MSTC78 | MSTC78 | | LS | MP |
|------|--|----------|------|----------|------------|------------|-------------|--------|---|--------|-------|
| | HGUS26-2 | THDH26-2 | ٩. | EPC66 | EPCM66 | 0 | HDU4 | PHD4A | | SSTB16 | STBI6 |
| | HGUS414 | THDH414 | | CCQ/ECCQ | KCCQ/KECCQ | ¥ | HDU8 | PHD8 | ŝ | SSTB20 | STB20 |
| | HGUS5.50/12 | THDH612 | S. | ABU44 | PAU44 |] 승 [| HDU8 | UPHD8 | Ρ | SSTB24 | STB24 |
| | HGUS5.50/14 | THDH614 | IS I | ABU46 | PAU46 | Δļ | HDUII/HDUI4 | UPHDII | ΰ | SSTB28 | STB28 |
| | | | Ы | ABU66 | PAU66 |] <u>ರ</u> | STHD10 | STADI0 | 4 | SSTB34 | STB34 |
| | | | | ABU88 | PAU88 | + | STHD14 | STADI4 | | SSTB36 | STB36 |
| | NAILS | | | | | | | | | | |
| 5.1. | I. ALL NAILS SPECIFIED IN PLANS SHOULD HAVE PROPERTIES NOTED AS FOLLOWS: | | | | | | | | | | |
| | | | | | | | | | | | |

| IAIL | 8d | 10d | 16d | 16d COMMON | 20d |
|------------------------|------------------|---------------|--------------------|--------------------|--------------------|
| HANK DIAMETER | 0.131" | 0.148" | 0.148" | 0.162" | 0.192" |
| IEAD DIAMETER | 0.281" | 0.312" | 0.344" | 0.344" | 0.406" |
| 1IN LENGTH | 2 1/2" | 3" | 3 1/4" | 3 1/2" | 4" |
| 2. ALL NAILS IN HARDWA | ARE SHALL BE PER | THE MANUFACTU | IRER'S SPECIFICATI | ONS AS NEEDED TO A | CHIEVE THE MAXIMUM |

HARDWARE VALUE. 3.3. ALL NAILING NOT SPECIFIED ON PLANS OR IN TABLE BELOW TO BE PER CBC TABLE 2304.10.2

| NAILING SCHEDULE (PARTIAL)' | | | | | | | | | | | |
|-----------------------------------|--|--|---------------------------|--|--|--|--|--|--|--|--|
| CONNECTION | NAILING | CONNECTION | NAILING | | | | | | | | |
| JOIST TO SILL OR GIRDER, TOENAIL | (3) 8d | RIM BOARD TO TOP PLATE, TOENAIL | 8d @ 6" OC | | | | | | | | |
| BRIDGING TO JOIST, TOENAIL EA END | (2) 8d | SOLID SAWN JOIST/JOIST BLOCK TO | (3) 10d TOE NAILS OR | | | | | | | | |
| SOLE PLATE TO JOIST, BLKG OR RIM | 16d @ 12" OC | I-JOIST/I-JOIST BLOCK TO TOP PLATES OR BEAM | (2) 8d @ BOTTOM FLANGE | | | | | | | | |
| STUD TO TOP PLATE OR SILL/SOLE | (4) 8d TOE NAILS OR (2) 20d END NAILS | TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL | (3) 16d | | | | | | | | |
| PLATE | AT 3X SILL PLATE | CONT HEADER, TWO PIECES | (2) ROWS 16d @ 12" OC | | | | | | | | |
| POST TO TOP PLATE OR SILL/SOLE | DETAIL B/SN.2 | CEILING JOISTS TO TOP PLATE, TOENAIL | (3) 8d | | | | | | | | |
| PLATE | | CONT HEADER TO STUD, TOENAIL | (4) 8d | | | | | | | | |
| DBL STUDS, FACE NAIL | 16d @ 16" OC | CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL | (4) 16d | | | | | | | | |
| DBL TOP PLATES, TYP. FACE NAIL | 16d @ 12" OC | CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL | (4) 16d | | | | | | | | |
| DBL TOP PLATES, LAP SPLICE | (12) 16d² | RAFTER TO TOP PLATE, TOENAIL | (3) 8d | | | | | | | | |
| BLKG BTWN JOISTS OR RAFTERS | (3) 10d | BUILT-UP CORNER STUD | 16d @ 16" OC | | | | | | | | |
| TO TOP PLATE OR BEAM TOFNAL | | BUILT-UP GIRDERS AND BEAMS | (3) ROWS 16d @ 12"OC | | | | | | | | |
| | | 2" PLANKS | (2) 16d @ EA BEARING | | | | | | | | |
| | | | | | | | | | | | |

SEE NAIL SPECIFICATIONS ABOVE. . REPRESENTS HARRIS & SLOAN NAILING REQUIREMENT, DOES NOT REPRESENT MIN CODE REQUIREMENT

6.7 PRE-MANUFACTURED ROOF TRUSS NOTES

- 1. GENERAL 1.1. DESIGN AND FABRICATE USING CODE CRITERIA, LOAD SPECIFICATIONS, AND LOAD DURATION INCREASE SPECIFIED IN SECTION 1.1
- 1.2. ALL ROOF TRUSSES TO BE 24" OC MAXIMUM UNO. SEE DETAIL P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. 1.3. TRUSS PLATE CONNECTIONS SHALL BE IN ACCORDANCE WITH PUBLISHED APPROVALS OF ICC & TPI I. 1.4. TRUSS DRAWINGS AND CALCULATIONS SHALL HAVE ORIGINAL SIGNATURE BY CIVIL OR STRUCTURAL ENGINEER
- NSED IN THE STATE AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND LOCAL BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION
- 2. MATERIALS / MEMBER SIZES: 2.1. MINIMUM MEMBER SIZES: TOP CHORD 2X4, BOTTOM CHORD 2X4, WEBS 2X4. MINIMUM GRADE OF LUMBER SHALL BE SET BY THE TRUSS DESIGN ENGINEER. LUMBER SPECIES TO BE DF (NO HEM FIR). 3. SHOP DRAWINGS
- 3.1. PROVIDE COMPLETE TRUSS CALCULATION PACKAGE WITH TRUSS IDENTIFICATION NUMBERS AND TRUSS TO TRUSS CONNECTIONS CLEARLY IDENTIFIED ON LAYOUT. SPECIFY TRUSS MANUFACTURER ON TRUSS DRAWINGS. PROVIDE COPIES OF ICC APPROVALS FOR METAL CONNECTOR PLATES USED.
- 3.2. TRUSS MANUFACTURER TO CLEARLY INDICATE ALL BRACING AND BRIDGING. MEMBERS SHALL BE ADEQUATELY BRACED DURING ERECTION. MEMBERS SHALL BE ALIGNED AND ALL CONNECTIONS COMPLETED BEFORE REMOVAL OF BRACING. 3.3. WHERE A FIRE SPRINKLER SYSTEM IS PROVIDED IN ACCORDANCE WITH NFPA-13 OR 13R, TRUSSES SHALL BE DESIGNED
- TO SUPPORT A MINIMUM LIVE LOAD OF 250# AT ANY POINT ACCESSIBLE TO SPRINKLER INSTALLATION PERSONNEL. 3.4. MAXIMUM TRUSS TO TRUSS TOTAL LOAD DIFFERENTIAL DEFLECTION SHALL NOT EXCEED 0.25" \$ MAXIMUM TOTA
- DEFLECTION IN ANY TRUSS SHALL NOT EXCEED 0.75" (0.35" AND 1.0" RESPECTIVELY WITH CREEP FACTOR OF 3.0) UNO 3.5. TRUSS TOP CHORD PANEL TO PANEL SPANS SHALL NOT EXCEED 7'-6" FOR 2X4 MEMBERS \$ 10'-6" FOR 2X6 MEMBERS. TRUSS BOTTOM CHORD PANEL TO PANEL SPAN SHALL NOT EXCEED 9'-6" FOR 2X4 OR 2X6 MEMBERS.
- 3.6. WHERE TWO OR MORE ADJACENT TRUSSES WITH WEB CONFIGURATIONS CAPABLE OF ACCOMMODATING AN ASSUMED RECTANGLE 42" HIGH X 24" WIDE OR GREATER INSTALL A MIN IX4 SCAB MAX 42" ABOVE BC WITH (2) & ANALS TO EA WEB UNO ON PLANS. WHERE SCAB IS NOT INSTALLED AFFECTED TRUSSES SHALL BE DESIGNED FOR 20 PSF BC LIVE LOAD WITHIN THE ASSUMED RECTANGLE (CONCURRENT WITH TYPICAL TC LIVE LOAD) AND 10 PSF BC DEAD LOAD APPLIED ALONG THE ENTIRE LENGTH OF THE TRUSS. ACCEPTABLE ALTERNATE AT FAU PLATFORMS: DESIGN EACH TRUSS WITH FAU OPENING WITH A 250# POINT LOAD APPLIED TO THE BOTTOM CHORD AT THE MIDDLE OF THE RECTANGLE.

3.7. WHEN TRUSSES ARE DESIGNED WITH LIVE LOAD REDUCTION PER CBC 1607.14.2. ALL TRUSSES WITH PITCH GREATER THAN 4:12 TO BE DESIGNED WITH INCREASED ROOF DEAD LOAD PER FOLLOWING TABLE:

DEAD LOAD INCREASES BASED ON ROOF PITCH 4.1:12 TO 5.9:12 6:12 TO 6.9:12 7:12 TO 7.9:12 8:12 TO 8.9:12 9:12 TO 9.9:12 10:12 TO 10.9:12 11:12 TO 11.9:12 12:12 AND ABOVE 3.8. DRAG TRUSSES SHALL BE DESIGNED TO TRANSFER THE PLAN SPECIFIED DRAG LOAD FROM THE TC TO THE BC.

3.9. ALL GABLE END TRUSSES TO BE DESIGNED TO TRANSFER A MINIMUM OF 100 PLF FROM TC TO BC, DRAG LOAD NEED NOT EXCEED 2000#, UNO. 4. CONSTRUCTION: 4.1. GABLE STUDS TO BE 2X4 STANDARD DF MIN. TRUSS MANUFACTURER TO PROVIDE BRACING DETAILING WHERE HEIGHT

- EXCEEDS 72" 4.2. PROVIDE 2X BLOCKING BETWEEN TRUSSES AT ALL RIDGES.
- 4.3. PROVIDE MINIMUM DOUBLE 2X POST UNDER EACH END AND ALL INTERIOR BEARING POINTS (WHERE APPLICABLE) OF GIRDER/HIP TRUSSES UNO 4.4. PROVIDE CLIP AT ALL TRUSS TO BEARING WALL TOP PLATE/BEAM CONNECTIONS PER THE FOLLOWING, UNO: SINGLE PLY TRUSS.........HI CLIP MULTI-PLY TRUSS...........H2.5A CLIP GABLE END TRUSS..........H2.5A CLIP

1. SHEATHING:

- 1.2. FACE GRAIN PERPENDICULAR TO FRAMING.
- 2.4. CONTINUE ROOF SHEATHING UNDER OVERFRAMING. 3. FRAMING LAYOUTS:

1.7 WALL FRAMING NOTES

- FRAMING MATERIALS:
- OR IN RATED FIREWALLS.
- 2. MEMBER SIZES: 2.3. TRIMMERS: PROVIE
- EXCEPT THAT (2.4. KING STUDS: PROVI 2.5. HEADERS: PROVIDE
- OPENING WALL WIDTH 3'-0" 4" WALL 6" WALL 2X6 3. CONSTRUCTION REQUIREMENTS:

2.1 RETROFIT & POST-INSTALLED ANCHOR SPECIFICATIONS

- POST-INSTALLED ANCHORS IN CONCRETE: LARC SUPPLEMENT)

3.1 CONCRETE (SEE PT PLANS BY OTHERS FOR PT SLAB SPECIFICATIONS) I. GENERAL REQUIREMENTS: CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318.

- 2. MATERIALS:

- 2.4.1. FLY ASH MUST CONFORM TO ASTM C618.
- 2.4.2. GGBFS MUST CONFORM TO ASTM C989. CONSTRUCTION
- 3. CONSTRUCTION REQUIREMENTS:

3.2 REINFORCING (SEE PT PLANS BY OTHERS FOR TENDON SPECIFICATIONS)

- MATERIALS: LARGER
- 2. CONSTRUCTION REQUIREMENTS: PRACTICE" BY CRSI

6.1 WOOD SPECIFICATIONS

ALL STRUCTURAL WOO MATERIAL DOUGLAS FIR - COAST REDWOOD _____ OSB/PLYWOOD LVL/PSL/LSL BEAMS GLUED LAMINATED BEAM

GLUED LAMINATED BEAMS

(I-HOUR FIRE-RATED) PRESSURE TREATED " BORATE TREATED LL 2. SEE SECTION 6.3 FOR . MINIMUM GRADES ANI FRAMING MEMBER

RIM BOARD (DIMENSIONA RIM BOARD (SCL) RIM BOARD (CURVED) TOP PLATES

SCL BLOCKING SCL BLOCKINGI 1/4" I.3E SCLBEAMS/POSTS/RAFTERS2X FRAMING: #2 D

SPEC Fb

SPEC SG Fb

- 2.0E SCL 0.50 290 2.2E SCL 0.50 290
- 6.2 WALL SHEATHING NOTES
- 2. SHEARWALL CONSTRUCTION: SEE DETAIL C/SN.2
- FRAMING MEMBERS.

- PLATES & SILLS
 - & ALL OTHER STRUCTURAL 4X FRAMING: #2 DF STRUCTURAL SHEATHING 3. ALL BEAMS SHALL H

1.6 ROOF FRAMING NOTES

I.I. FOR ROOF SLOPES 3:12 AND GREATER, ROOF SHEATHING TO BE MINIMUM 15/32" APA RATED SHEATHING. PANEL ID 32/16, EXPOSURE I. FOR UNINHABITABLE ROOFS WITH SLOPES LESS THAN 3:12, ROOF SHEATHING TO BE MINIMUM 19/32" APA RATED SHEATHING PANEL ID 40/20 EXPOSURE I. FOR HABITABLE ROOFTOP DECKS ROOF SHEATHING TO BE MINIMUM 23/32" APA RATED SHEATHING. PANEL ID 48/24, EXPOSURE 1.

2.2. NAIL SHEATHING WITH 8d @ 6" OC EDGE, 12" OC FIELD TYP UNO. SEE DETAIL C/SN.2. 2.3. NAIL SHEATHING AT ALL DRAG MEMBERS W/ 8d @ 6" OC, TYP UNO.

3.1. FRAMING LAYOUTS SHOWN ON PLANS ARE APPROXIMATE. GIRDER/DRAG/HIP/COLLECTOR ELEMENTS ARE TO BE PLACED AS SHOWN ON THE PLANS. ALL OTHER MEMBERS SHOWN MAY BE ADJUSTED AS REQUIRED PROVIDED THAT THE PLAN SPECIFIED MAXIMUM SPACING IS MAINTAINED. SEE DETAIL P/SN.2 FOR ALLOWABLE ADJUSTMENTS. 3.2. DO NOT CUT OR MODIFY ANY FRAMING MEMBER WITHOUT WRITTEN CONSENT OF THE MANUFACTURER AND PROJECT 3.3. BRACE ROOF FRAMING TO BEARING WALLS AND BEAMS DESIGNED FOR SUCH LOADS ONLY.

3.4. PROVIDE RESTRAINT AT ENDS OF ALL MEMBERS TO PREVENT ROTATION.

1.1. ALL FRAMING MATERIAL SHALL BE DF UNO & MEET OR EXCEED GRADE SPECIFIED IN SECTION 6.1. 1.2. ALL MUDSILLS IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED DF, SEE SECTION 6.1.

1.3. ALL WOOD EXPOSED TO WEATHER TO BE NATURALLY DURABLE OR PRESSURE TREATED, SEE SECTION 6.1. ALL HARDWARE EXPOSED TO WEATHER SHALL BE CORROSION RESISTANT PER SECTION 6.3. 1.4. IF FINGER JOINTED STUDS ARE USED, THEY MUST BE DF STRESS RATED AND STAMPED BY AN APPROVED IC INSPECTION AGENCY. FINGER JOINTED STUDS ARE NOT TO BE USED IN HORIZONTAL APPLICATIONS, AS HOLDOWN POSTS,

2.1. FRAME ALL BEARING WALLS PER THE BEARING WALL STUD SCHEDULES ON THE FRAMING SHEETS. 2.2. STUDS IN INTERIOR NON-BEARING WALLS SHALL BE STUD GRADE AND SPACED NOT MORE THAN 24" OC

| < | NON-BEARING WALLS S | SHALL BE S | STUD GRAL | PE AND SP | ACED NOT MORE THAN 24" OC. | | | | | | |
|------------|--|------------|-----------|-----------|---|--|--|--|--|--|--|
| DE 2X | E TRIMMERS PER PLAN. UNO, PROVIDE (2) 2X TRIMMERS AT ALL OPENINGS GREATER THAN 8'-0" X TRIMMER IS OK AT GARAGE DOOR HEADERS AND ALL NON-BEARING WALL OPENINGS UP TO 16'-0". | | | | | | | | | | |
| 'ID E E | IDE KING STUDS PER THE TABLES ON THE FRAMING PLANS UNO. BEARING WALL HEADERS PER PLAN AND NON-BEARING HEADERS PER THE FOLLOWING TABLE: | | | | | | | | | | |
| | 6'-0" | 8'-0" | 12'-0" | 16'-0" | (1) 9 1/2" TJI 110 OR EQUIVALENT MAY BE | | | | | | |
| | 4X4 OR (2) 2X4 | 4X6 | 4X8 | 4X10 | USED @ NON-BEARING WALL OPENINGS UP TO | | | | | | |
| | 4X6 FLAT | 6X6 | 6X6 | 6X8 | 16'-0" | | | | | | |

3.1. SEE DETAIL B/SN.2 FOR TYPICAL BEARING WALL FRAMING & PLATE LAP/SPLICE REQUIREMENTS. 3.2. SEE SECTION 6.3 FOR TYPICAL MEMBER TO MEMBER CONNECTIONS.

3.3. BEARING AND SHEARWALLS TO HAVE DOUBLE TOP PLATES, LAPPED & SPLICED PER DETAIL B/SN.2. DO NOT INSTALL SHIM OVER TOP PLATES. 3.4. PROVIDE FIRE BLOCKING AT 10'-0" INTERVALS AND AT ALL FLOOR AND CEILING LEVELS.

3.5. SEE DETAIL S/SN.2 FOR BLOCKING REQUIREMENTS AT GRAB BAR LOCATIONS. 3.6. CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDDING AT FLOOR ABOVE.

3.7. ALL POSTS TO BE CARRIED THROUGH TO FOUNDATION OR BEAM/HEADER BELOW. PROVIDE SQUASH BLOCKING IN FLOOR CAVITY PER DETAIL N/SN.2. MIN BEARING WIDTH TO BE SAME AS POST ABOVE. SQUASH BLOCK MAY BE OMITTED AT DOUBLE 2X4 STUDS WHERE SCL RIM IS PRESENT

1.1. ALL POST-INSTALLED ANCHORS REQUIRE PERIODIC SPECIAL INSPECTION IN ACCORDANCE WITH CBC, SECTION 1705. 1.2. UNLESS NOTED OTHERWISE, EPOXIED REBAR AND ANCHORS MAY NOT BE INSTALLED FOR 21 DAYS AFTER CONCRETE POUR. IN ACCORDANCE WITH SIMPSON BULLETIN STRONG-TIE CATALOG C-A-2018, WHEN APPROVED IN ADVANCE BY THE ENGINEER OF RECORD. ANCHORS MAY BE INSTALLED WITH SIMPSON SET-3G EPOXY 7 DAYS AFTER CONCRETE POUR. NSTALLATION OF ALL POST-INSTALLED ANCHORS MUST BE PERFORMED BY TRAINED PERSONNEL AND IN ACCORDANCE WITH THE PRODUCT MANUFACTURERS INSTRUCTIONS. MANUFACTURER'S REQUIREMENTS REGARDING AGE OF CONCRETE CONCRETE TEMPERATURE, MOISTURE CONDITION OF THE CONCRETE, DRILLING, AND PREPARATION MUST BE SATISFIED. 1.3. WHEN INSTALLING DRILLED ANCHORS IN EXISTING CONCRETE CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.

2.1. FOR MISPLACED/UNINSTALLED ANCHOR BOLTS & MUDSILL ANCHORS IN FOUNDATION PROVIDE ALL-THREAD ROD WITH DIAMETER, SPACING, & GRADE PER ANCHOR BOLT SPECIFICATIONS IN SECTION 1.4, UNLESS MORE RESTRICTIVE ANCHOR SPACING IS NOTED ON PLAN. EPOXY ROD INTO CONCRETE MIN 7" W/ SIMPSON SET-3G EPOXY (ICC ESR-4057 LABC AND

2.2. SIMPSON TITEN HD ANCHOR BOLTS MAY BE USED IN PLACE OF MISSED 1/2" ANCHOR BOLTS, 5/8" ANCHOR BOLTS OR MUDSILL ANCHORS IN BOTH SHEARWALL AND NON-SHEARWALL LOCATIONS. INSTALL (1) TITEN HD FOR EACH MISSED ANCHOR. PROVIDE 5/8" & X 6" TITENS AT 2X SILL PLATES AND 5/8" X 6 1/2" TITENS AT 3X SILL PLATES. TITEN HD TO BE INSTALLED WITH PLATE WASHERS PER ANCHOR BOLT SPECIFICATIONS IN SECTION 1.4. INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND PER ICC ESR-2713. ZINC PLATED TITENS MAY ONLY BE INSTALLED IN SBX-DOT (SODIUM BORATE) TREATED SILL PLATES. AT FIRE RETARDANT TREATED WOOD USE MECHANICALLY GALVANIZED TITEN HD ANCHOR BOLTS. 2.3. FOR MISPLACED/UNINSTALLED HOLDOWNS IN FOUNDATION SEE DETAIL MM/SN.3.

2.1. CONCRETE SHALL BE NORMAL WEIGHT, UNO AND SHALL MEET THE REQUIREMENTS OF SECTION 1.1 AND AS NOTED ON THE FOUNDATION PLAN.

2.2. CEMENT SHALL CONFORM TO ASTM C150. WHERE A PROJECT SOILS REPORT IS PROVIDED, VERIFY SITE SPECIFIC CRITERIA, SUCH AS PROTECTION AGAINST SOIL CORROSIVITY, PRIOR TO CONSTRUCTION. 2.3. CONCRETE AGGREGATES: NATURAL SANDS AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33. 2.4. FLY ASH & GROUND GRANULATED BLAST FURNACE SLAG (GGBFS) MAY REPLACE UP TO 30% OF THE CEMENT (B) WEIGHT) PROVIDED FORM BOARDS ARE LEFT IN PLACE AND SLAB IS NOT LOADED UNTIL CONCRETE HAS REACHED 65% OF THE SPECIFIED DESIGN STRENGTH.

2.4.3. CEMENT REPLACEMENTS OUTSIDE THESE LIMITATIONS MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO

3.1. MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".

3.2. REINFORCING DOWELS, BOLTS, ANCHORS, SLEEVES, ETC TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE CONCRETE PLACEMENT 3.3. WOOD SPREADERS ARE NOT ALLOWED. WOOD & METAL STAKES ARE NOT ALLOWED IN AREAS TO BE CONCRETED. 3.4. PIPES PASSING THROUGH CONCRETE MAY BE SLEEVED OR OTHERWISE PROTECTED BY FOAM, BUT MAY NOT BE EMBEDDED THEREIN. SEE DETAIL II/SN.3. 3.5. CONCRETE SHALL NOT BE ALLOWED TO CURE IN TEMPERATURES LESS THAN 40° F FOR THE FIRST SEVEN DAYS UNLESS THE COLD WEATHER CONCRETING PROVISIONS OF ACI 306 ARE FOLLOWED

I.I. REINFORCING SHALL CONFORM TO ASTM A615 GRADE 40 FOR #3 BARS AND SMALLER, GRADE 60 FOR #4 BARS AND I.2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. LAP SHALL BE 18" MIN.

2.1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO THE "MANUAL OF STANDARD 2.2. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF CONCRETE AND DENOTE CLEAR COVERAGE UNO. COVERAGE SHALL BE AS FOLLOWS UNO ON PLANS: 3" CLEAR FOR CONCRETE CAST AGAINST EARTH, 2" CLEAR FOR CONCRETE EXPOSED TO MOISTURE BUT NOT CAST AGAINST EARTH, AND I 1/2" FOR ALL OTHER CONDITIONS. 2.3. LAPS, SPLICES, AND BENDS SHALL BE AS DEFINED IN DETAIL FF/SN.3.

| ЭD | SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS: |
|----|---|
| | SPECIFICATION |
| | WEST COAST LUMBER INSPECTION BUREAU GRADING RULES #17. AT TIME OF CONSTRUCTION MOISTURE CONTENT NOT TO EXCEED 19%. |
| | CALIFORNIA REDWOOD ASSOCIATION GRADING RULES, 1987 EDITION |
| | DOC PS-1-09 \$ PS-2-10 |
| | MANUFACTURER'S ICC REPORT IN COMPLIANCE WITH CODE LISTED IN ICC REPORT |
| õ | STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER, AITC 117-04. GLU-LAM BEAMS SHALL BE INSPECTED AND A CERTIFICATE PROVIDED TO FIELD INSPECTOR AT THE TIME OF FRAMING INSPECTION. FABRICATION SHALL BE PERFORMED IN AN APPROVED FABRICATOR'S SHOP, IN ACCORDANCE WITH CBC 1704.2.5. ALL GLU-LAM BEAMS CONTINUOUS OVER SUPPORTS OR CANTILEVERED SHALL HAVE TENSION LAMINATIONS ON TOP OF BEAMS. AT TIME OF INSTALLATION, MOISTURE CONTENT SHALL NOT EXCEED 16%. |
| ò | ALL BEAMS NOTED AS "ONE-HOUR FIRE-RATED" ON THE PLANS SHALL BE PER THE "GLUED LAMINATED BEAMS" SECTION ABOVE WITH THE FOLLOWING REQUIREMENTS: PROVIDE (1) ADDITIONAL OUTER TENSION LAMINATION IN LIEU OF (1) CORE LAMINATION ON THE TENSION SIDE OF 24F-V4 BEAMS AND ON EACH TENSION SIDE OF 24F-V8 BEAMS. |
| | DOT SODIUM BORATE, ALKALINE COPPER QUAT ACQ-C/D (CARBONATE), OR COPPER AZOLE (CBA-A \ddagger CA-B) |
| MB | BER SHALL NOT BE USED IN ANY APPLICATIONS WHERE LUMBER IS EXPOSED TO WEATHER |
| н | ARDWARE SPECIFICATIONS. |
| | DESIGN CRITERIA SHALL MEET OR EXCEED THE FOLLOWING, UNO ON PLANS: |
| | SPECIFICATION |
| | PER SN.1, SECTION 1.7 |
| -) | N/A |
| | 1 1/4" 1.3E SCL |
| | (3) LAYERS OF 3/8" APA RATED SHTG GLUED & NAILED TOGETHER |
| | 2X #2 DF (1 1/8" PLYWOOD AT CURVED TOP PLATES) |
| | SILLS: MIN 2X PT DF STD & BETTER, OTHER PLATES: MIN 2X DF STUD GRADE CURVED: 1 1/8" PLYWOOD FOR SOLE PLATES & 1 1/8" PT PLYWOOD FOR SILL PLATES |
| | |

6Y FRAMING, #1 D

| | 10A I NAI | ma | #1 DI | | | | | | | | |
|-----|---------------------------------------|--------------------------|----------|-------|--------------------|----------------------------------|----------------------------|-----------------------------|------------------------------|--|--|
| | APA RAT | ГED | | | | | | | | | |
| VE | /E THE FOLLOWING MIN DESIGN STRENGTHS | | | | | | | | | | |
| | GLUE L | AMIN. | VATED | MEN | 1BERS ¹ | | | | | | |
| Fα | Fv | | E | | CA | MBER | CONDITION ⁴ | 1. | GLUE-LAM BEAMS MAY NOT BE | | |
|) F | °SI 265 | 65 PSI 1.8E6 PSI | | 3500' | RADIUS | SINGLE SPAN | 2 | SCI LUMBER MUST MEET ALL OF | | | |
|) F | °SI 265 | 1 265 PSI 1.8E6 PSI ZERO | | ERO | ALL OTHERS | 2. | THE DESIGN STRENGTHS SHOWN | | | | |
| RA | L COMPOS | SITE | LUMBE | R S | 6PECIFI | CATI <i>O</i> NS ^{1,2,} | 3 | 3. | BEAMS SHALL BE SINGLE-PLY | | |
| | Fc perp | Fc | parallel | | Fv | E | TYP MATERIAL | | UNLESS SPECIFICALLY NOTED AS | | |
| 5I | 680 PSI | 140 | 0 PSI | 28 | 5 PSI | 1.3E6 PSI | LSL, LVL OR PSL | | "BUILT-UP" OR "MULTI-PLY" ON | | |
| 51 | 750 PSI | 160 | 0 PSI | 28 | 5 PSI | 1.5e6 PSI | LSL, LVL OR PSL | | NCLUDES MULTI-SPAN AND | | |
| 51 | 750 PSI | 160 | 0 PSI | 28 | 5 PSI | 2.0E6 PSI | LVL OR PSL | | CANTILEVER CONDITIONS | | |
| 51 | 750 PSI | 160 | 0 PSI | 29 | 0 PSI | 2.2E6 PSI | LVL OR PSL | | | | |
| | | | | | | | | | | | |

1. UNO ON PLAN OR WITHIN THE SHEARWALL SCHEDULE, WALL SHEATHING, WHERE OCCURS, SHALL BE 3/8" APA RATED SHEATHING W/ 8d @ 6" OC EDGE, 12" OC FIELD AND SHALL CONFORM TO THE SPECIFICATIONS OF SECTION 6.1.

2.1. SHEATHING USED IN THE CONSTRUCTION OF SHEARWALLS TO BE 4'-0" X 8'-0" MINIMUM EXCEPT AT BOUNDARIES OR AT HANGES IN FRAMING WHERE THE MINIMUM WIDTH IS TO BE 16" (TYP.) 2.2. FRAMING MEMBERS OR BLOCKING ARE REQUIRED AT ALL PANEL EDGES IN SHEARWALLS.

2.3. DO NOT BREAK FACE PLY WHEN NAILING ANY SHEARWALLS. 2.4. ALL NAILS SPECIFIED FOR USE IN SHEARWALLS TO BE OF SUFFICIENT LENGTH TO PROVIDE I 5/8" PENETRATION INTO

2.5. ALL FRAMING MEMBERS USED IN THE CONSTRUCTION OF THE SHEARWALLS MUST BE DOUGLAS FIR. 2.6. IT IS ACCEPTABLE TO INSTALL 7/16" SHEATHING AT ALL LOCATIONS WHERE 3/8" SHEATHING IS SPECIFIED ON THE PLANS.

1.1 DESIGN CRITERIA

GENERAL PROJECT INFORMATION: 1.1. PROJECT SHALL CONFORM TO THE 2022 CBC, ITS REFERENCED STANDARDS, AND APPLICABLE LOCAL BUILDING DEPARTMENT STANDARDS. 1.2. THE PROJECT IS RISK CATEGORY II, SEISMIC ANALYSIS IS COMPLETED USING THE EQUIVALENT FORCE PROCEDURE.

| 1.3. | DE | SIGN LOAD AND FOUNDATION CRITERIA ARE | AS FOLL | .OWS: | | | | | | | |
|------|--|---|----------|--------------------------------------|-------------------------|---------|--------------|------------------|--------------|---------|--|
| | | SEISMIC CRITERIA (ASCE 7-16, CH 12) | | | | | | SOILS | 6 F | EPOR | |
| | RES | SPONSE MODIFICATION FACTOR, R | 6.5 | BY | ADVANCED GEOTECHNICAL S | | | | | | |
| | SEI | SMIC IMPORTANCE FACTOR, I | 1.0 | REP | REPORT 2202-04-B-2 | | | | | | |
| | SIT | E CLASS | С | DATE 04/08/2022 | | | | | | | |
| | SHO | ORT PERIOD SPECTRAL ACCELERATION, SS | 0.754 | NOTES: | | | | | | | |
| | 1 5 | ECOND SPECTRAL ACCELERATION, SI | 0.275 | POST-TENSIONED SLAB DESIGN BY OTHERS | | | | | | | |
| | SHO | ORT PERIOD ACCELERATION PARAMETER, SDS | 0.603 | | | | | | | | |
| | 1 5 | ECOND ACCELERATION PARAMETER, SDI | 0.275 | | | | | | | | |
| | SEI | SMIC RESPONSE COEFFICIENT, Cs | 0.093 | | | | | | | | |
| | SEI | SMIC DESIGN CATEGORY | D | | | | | GRAVIT | ΥL | OADS | |
| | DES | GIGN BASE SHEAR, W | 0.065 | | IVE L | OAD | | 20 PSF | | GROUI | |
| | | | | | DEAD | LOAD | | 15 PSF* | 171 | FLAT | |
| | | WIND DESIGN PARAMETERS | | | EILIN | G LL | | 10 PSF** | 1 <u>5</u> [| EXPOS | |
| | MIN | D SPEED | 96 MPH | | EILIN | G DL | | 10 PSF |]ຫົ[| IMP0R | |
| | EXP | OSURE | С | UNIT LIVE LOAD | | | 40 PSF | 1 [| THERI | | |
| | INTE | ERNAL PRESSURE COEFFICIENT | 0.18 | | DEAD | LOAD | | 18 PSF : | | NCLUDES | |
| | COM | 1PONENT & CLADDING DESIGN PRESSURE | 18 PSF | | EILIN | G DL | | 7 PSF | ** | CEILING | |
| 1.4. | SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED FOR THE ITEMS BELOW AND MUST CONF SECTION 1704. | | | | | | | | | | |
| | | SPECIA | L INSPEC | TION | AND | TESTING | SUMM | 1ARY | | | |
| | Е | MAIN WINDFORCE-RESISTING SYSTEM | | | | R = | SPEC | IAL INSPE | СТ | ION RE | |
| | R | SEISMIC-FORCE-RESISTING SYSTEM · WOOD DIAPHRAGMS AND SHEARWALLS. | | | | CR = | SPEC CONT | IAL INSPE | CT RES | ION AN | |
| | | | | | |]E = | EXEM | MPT PER EXCEPTIC | | | |
| | | | | | | NA = | NOT | APPLICAB | LE | то ті | |
| | | | | | | | | | | | |

VERIFY SPECIAL INSPECTION REQUIREMENTS WITH THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. SEE THE STATEMENT OF SPECIAL INSPECTIONS FOR SPECIFIC INSPECTION REQUIREMENTS. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF ANY DESIGNATED COMPONENT(S) SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE COMPONENT(S) IN ACCORDANCE WITH THE REQUIREMENTS OF CBC 1704.

1.5. DEFERRED SUBMITTALS:

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS IN ACCORDANCE WITH CBC 107.3.4.2. PRIOR TO FABRICATION, SUBMITTAL DOCUMENTS SIGNED & STAMPED BY AN ENGINEER LICENSED IN THE STATE WHERE WORK IS PERFORMED SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER FOR REVIEW & SUBMITTAL TO THE BUILDING DEPARTMEN ROOF TRUSSES

1.2 GENERAL NOTES

1. SCOPE:

I.I. THE PROJECT DOCUMENTS MAY NOT BE USED IN A LOCATION OTHER THAN THAT DESIGNATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. 1.2. THIS IS A "BUILDER'S SET" PRODUCED SOLELY FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR.

- 1.3. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY. THEY ARE NOT EXTENSIVELY DETAILED NOR ARE COMPLETE SPECIFICATIONS PROVIDED. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEMHERE WITHIN THE AND THE FOR THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEMHERE WITHIN THE PLAN SET. FOR ITEMS, METHODS AND/OR MATERIALS NOT SPECIFIED WITHIN THE SET, THE MINIMUM REQUIREMENT OF THE APPLICABLE CODE SHALL GOVERN.
- THE ENGINEER PROVIDES NO WARRANTY OR GUARANTEE ON THE FINAL PROJECT, NOR DUTY TO ANY PERSON OR ENTITY BEYOND THE AFOREMENTIONED LIMITED INFORMATION OF THESE PLANS. 1.5. FLASHING & WATERPROOFING SHALL BE SPECIFIED BY THE PROJECT ARCHITECT. UNO, IT IS ASSUMED THAT ALL STRUCTURAL MEMBERS AND CONNECTIONS ARE PROPERLY WATERPROOFED
- 1.6. WHERE SPECIFIED WITHIN THIS SET, I-COAT STUCCO APPLIES TO PRODUCTS COVERED UNDER ICC ESR-1194. CONTACT HARRIS & SLOAN TO CONFIRM REQUIREMENTS FOR ALL OTHER PRODUCTS. 2. CONTRACTOR REQUIREMENTS:
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- 2.2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. 2.3. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL.
- 2.4. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT, UNTIL CONFLICT IS RESOLVED BY THE AFFECTED PARTIES.
- THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL SHEARWALLS, ROOF DIAPHRAGMS, AND FINISH MATERIALS. CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE CONTRACTOR IS CONTRACTOR OF THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE
- SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. 2.6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OR ARCHITECT FOR ANY REQUIRED DIMENSIONS NOT SHOWN. DRAWINGS & DETAILS WITHIN THIS SET SHALL NOT BE SCALED FOR ANY PURPOSE. 2.7. THE GENERAL CONTRACTOR AND IT'S SUB-CONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS, SHOP DRAWINGS THAT ARE SUBMITTED TO THE ENGINEER OF RECORD FOR THEIR REVIEW DO NOT CONSTITUTE "IN WRITING". CHANGES TO THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS BECOME THE RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES.

1.3 TYPICAL ABBREVIATIONS

| AB | ANCHOR BOLT | FRT | FIRE RETARDANT TREATED | PERP | PERPENDIC |
|------|--------------------------|-------|-----------------------------|-------|-------------------|
| ABV | ABOVE | FTG | FOOTING | PL | PLATE |
| AFF | ABOVE FINISHED FLOOR | GA | GAUGE | PLF | POUNDS P |
| ALT | ALTERNATE | GALV | GALVANIZED | PSF | POUNDS P |
| APA | AMERICAN PLYWOOD ASSN | GLB | GLUE-LAMINATED BEAM | PSI | POUNDS P |
| BC | BOTTOM CHORD | HD | HOLDOWN | PSL | PARALLEL |
| BLKG | BLOCKING | HDR | HEADER | ΡT | PRESSURE |
| BLW | BELOW | HORIZ | HORIZONTAL | PT | POST TEN |
| BM | BEAM | HS | HIGH STRENGTH | REINF | REINFORCI |
| BRG | BEARING | HSS | HOLLOW STRUCTURAL SECTION | REQ'D | REQUIRED |
| СВС | CALIFORNIA BUILDING CODE | IBC | INTERNATIONAL BUILDING CODE | SAD | SEE ARCH |
| CL | CENTERLINE | ICC | INTERNATIONAL CODE COUNCIL | SCL | STRUCTUR |
| CLR | CLEAR | LL | LIVE LOAD | SHTG | SHEATHING |
| CMU | CONCRETE MASONRY UNIT | LSL | LAMINATED STRAND VENEER | SOG | SLAB ON (|
| CONC | CONCRETE | LVL | LAMINATED VENEER LUMBER | SPEC | SPECIFICA |
| CONT | CONTINUOUS | MFR | MANUFACTURER | SQ | SQUARE |
| DBL | DOUBLE | MAX | MAXIMUM | STD | STANDARD |
| DF | DOUGLAS FIR LARCH | MB | MACHINE BOLT | SW | SHEARWAL |
| DIA | DIAMETER | MIN | MINIMUM | T¢B | T <i>O</i> P ∉ BO |
| DIST | DISTANCE | (N) | NEW | ТС | TOP CHOR |
| DL | DEAD LOAD | NHR | NO HOLDOWNS REQUIRED | TS | TUBE STE |
| (E) | EXISTING | NTS | NOT TO SCALE | TYP | TYPICAL |
| EA | EACH | 0/ | OVER | UNO | UNLESS NO |
| ELEV | ELEVATION | OC | ON CENTER | VERT | VERTICAL |
| EN | EDGE NAIL | 0SB | ORIENTED STRAND BOARD | М | W SHAPE : |
| EQ | EQUAL | PERF | PERFORATED | WTS | WELDED-T |

1.4 FOUNDATION NOTES

1. SOIL CLASSIFICATIONS & GENERAL REQUIREMENTS I.I. FOUNDATION SYSTEM TO BE DESIGN BUILD BY OTHERS. COORDINATION WITH GRADING PLANS, UTILITIES, SOILS

- CONDITIONS, AND CONTRACTORS SHALL BE PER THE FOUNDATION DESIGNER. 2. DIMENSIONS, GRADING, AND PAD PREPARATION:
- 2.1. AT FOUNDATION PERIMETER, PROVIDE MINIMUM 8" CLEARANCE BETWEEN WOOD AND EARTH, 4" BETWEEN WOOD AND CONCRETE, UNO. AT EXTERIOR WOOD COLUMNS/POSTS, PROVIDE MINIMUM 6" BETWEEN WOOD AND EARTH, 1" BETWEEN WOOD AND CONCRETE, UNO.

2.2. SAD FOR FOUNDATION STEPS & SLOPES. 3. SILL PLATE ATTACHMENT: SEE GG/SN.3 FOR ANCHOR PLACEMENT INFORMATION

- 3.1. <u>ANCHOR BOLT SPECIFICATIONS:</u> 1/2" ¢ X 10" ANCHOR BOLTS @ 6'-0" OC MAX AT ONE ¢ TWO STORY STRUCTURES, 4'-0" OC AT THREE STORY AND ABOVE, UNO AT SHEARWALL LOCATIONS. MINIMUM 7" EMBEDMENT INTO CONCRETE. PROVIDE 3"X3"X0.229" PLATE WASHERS AT ALL SHEARWALL LOCATIONS AND STD CUT WASHERS ELSEWHERE.
- 3.2. MASA DRIVEN NAIL (SHOT PIN) SPECIFICATIONS: PROVIDE MASA @ 6'-0" OC MAX AT ONE & TWO STORY STRUCTURES, 4'-0" OC AT THERE STORY AND ABOVE, UNO AT SHERWALL LOCATIONS. MASA ANCHORS SHALL COMPLY WITH ICC ESR-
- 3.3. <u>POWDER DRIVEN NAIL (SHOT PIN) SPECIFICATIONS:</u> AT INTERIOR, NON-STRUCTURAL WALLS UNDER 14" TALL W/ 2X SILL PLATES, SHOT PINS MAY BE USED TO ANCHOR THE SILL TO THE FOUNDATION. PROVIDE SIMPSON PDPA-287 PINS @ 4'-0" OC OR HILTI X-CF PINS @ 3'-0".

1.5 FLOOR FRAMING NOTES

- I. GENERAL REQUIREMENTS: 1.1. SAD FOR FLOOR FRAMING STEPS AND SLOPES.
- 1.2. SEE SECTION 6.3 FOR TYPICAL MEMBER TO MEMBER CONNECTIONS.
- 1.3. DURING CONSTRUCTION MAX 20 SHEETS OF GYPSUM BOARD MAY BE STACKED IN ANY ROOM. DO NOT INSTALL CEILING TO BOTTOM OF FLOOR FRAMING UNTIL STACK IS REMOVED. 2. FLOOR SHEATHING:
- 2.1. TO BE 3/4" T\$G OR 23/32" APA RATED SHEATHING GLUED AND NAILED W/ 8d AT 6" OC EDGE, 12" OC FIELD MINIMUM. PANEL ID 48/24. EXPOSURE I FACE GRAIN PERPENDICULAR TO FRAMING, AND AS NOTED ON PLAN. 2.2. NAIL SHEATHING WITH 8d @ 6" OC EDGE, 12" OC FIELD TYP UNO. SEE DETAIL C/SN.2.
- 2.3. NAIL SHEATHING AT ALL DRAG MEMBERS W/ 8d @ 6" OC, TYP UNO.
- 3. FRAMING LAYOUTS: 3.1. LAYOUTS SHOWN ON PLANS ARE APPROXIMATE. COLLECTORS AND DOUBLE FRAMING MEMBERS ARE TO BE PLACED AS SHOWN ON THE PLANS. ALL OTHER MEMBERS SHOWN MAY BE ADJUSTED AS REQUIRED PROVIDED THAT THE PLAN SPECIFIED MAXIMUM SPACING IS MAINTAINED. SEE DETAIL O/SN.2 FOR ALLOWABLE ADJUSTMENTS.
- 3.2. SEE DETAIL J/SN.2 FOR ALLOWABLE FRAMING PENETRATIONS MODIFICATIONS BEYOND THOSE SPECIFIED IN THIS PLAN SET REQUIRE WRITTEN CONSENT OF MANUFACTURER AND PROJECT ENGINEER. 4. RIM BOARD:
- 4.1. RIM BOARD SHALL BE THE SAME DEPTH AS FLOOR FRAMING AND SHALL MEET OR EXCEED THE MINIMUM GRADE SPECIFIED IN SECTION 6.1. 4.2. SEE DETAIL J/SN.2 FOR ALLOWABLE RIM PENETRATIONS.
- 5. STAIR FRAMING: STRINGERS SHALL BE SCL LUMBER, NUMBER AND SPACING PER MANUFACTURER'S SPAN TABLES. SEE DETAIL NN/SN.3 FOR TYPICAL CONNECTIONS. WHERE CONFLICTS OCCUR, STRINGER MFR DETAILS TAKE PRECEDENCE. 6. GUARD/HAND RAILS:
- 6.1. CONNECTIONS FOR MANUFACTURED RAILS SHALL BE PROVIDED BY OTHERS. RAIL SYSTEMS MUST BE CAPABLE OF SUPPORTING A 200# POINT LOAD. 6.2. HALF-HEIGHT WALL CONDITIONS SHALL BE CONNECTED TO FLOOR FRAMING PER DETAIL 00/SN.3






STANDARD DETAILS







| GRAVITY LOADS | | | | | | |
|---|------------------------------|--------------------------------|----------------------|---------------------|--------------------|------------------|
| GRAVITY LOADS EXCEEDING 5K (D+L) ARE NOTED ON THE FOUNDATION PLAN. MINIMUM AND MAXIMUM EXTERIOR LINE LOADS ARE AS FOLLOWS: | | | | | | |
| MIN D=200 PLF L=40 PLF | | | | | | |
| MAX D=550 PLF L= 350 PLF | | | | | | |
| ADDITIONALLY, VERTICAL LOADS FROM THE LATERAL SYSTEM ARE APPLIED AT HOLDOWN LOCATIONS. CORRESPONDING DESIGN LOADS ARE LISTED IN THE TABLE BELOW. | | | | | | |
| | | HOLD | IWOC | N SC | HEDULE | |
| TYPE | SIMPSON ^I TYPE | MIN ² HD POST | HD TO CONNE | POST CTION | ANCHOR DIAMETER | 3 DESIGN LOAD |
| | HDU4 | 4X | (10) 1/4X2 SCR | SDS 2 1/2 EWS | 5/8" | 5.0K |
| Iq | HDU8 | 4X | (20) SDS | | | |
| (19A) | HDU8 | 4x6 <i>o</i> r 6x6 | 1/4X2 1/2 SCREWS | | 7/8" | 8.0K |
| 21 | HDU14 | 4X8 OR 6X6 | (36) 1/4X2 SCR | SDS 2 1/2 EWS | 1" | 15.0K |
| SEE DETAIL CC/SN.3 FOR TYPICAL HOLDOWN INSTALLATION. HOLDOWN POSTS TO MATCH WALL DEPTH. WHERE 4X6 ¢ 6X6 OPTION IS GIVEN, INSTALL 4X6 IN A 4" WALL, 6X6 IN A 6" WALL. UPLIFT CAN BE APPLIED IN UPWARD OR DOWNWARD DIRECTION. | | | | | | |

| SHEARWALL SCHEDULE | | | | | | |
|--|-------------------|-------------------------------|-----------------|--|--|--|
| | SILL ² | ANCHOR SPACING ^{3,4} | | | | |
| TTPE | PLATE | ANCHOR BOLTS | MASA ANCHORS | | | |
| 2 | 2X | 1/2"\$ X 10" @ 34" OC | 34" <i>O</i> C | | | |
| 4 | 2X | 1/2"\$ X 10" @ 16" OC | 16" OC | | | |
| I. SEE DETAIL C/SN.2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN.2 FOR ALLOWABLE SHEARWALL PENETRATIONS. | | | | | | |
| 2.3X SILLS TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING. AT 3X SILL PLATES ANCHOR BOLTS ARE 12" LONG AND MASA ANCHORS ARE INSTALLED WITH (9) IOD NAILS. | | | | | | |
| 3. EITHER ANCHOR TYPE MAY BE USED. MIN (2) ANCHORS PER SHEARWALL. SEE DETAIL GG/SN.3 FOR INSTALLATION REQUIREMENT. SEE SN.I, SECTION 2.1 FOR MISSED ANCHOR RETROFIT SPECIFICATIONS. | | | | | | |
| 4. SEE SN.1 SECTION 1.4 FOR ANCHOR PLATE WASHER SPECIFICATIONS. | | | | | | |

| | SYMBOLS LE |
|-----|---|
| | DENOTES SHEARWALL REQUIRED. REFER TO THIS SHEET. |
| | WHERE OCCURS, NHR |
| | WHERE OCCURS, DE HOLDOWN ABOVE |
| | DENOTES HOLDOWN & END OF SHEARWALL. I SCHEDULE ON THIS SH |
| ○ - | DENOTES KEYNOTE SF KEYNOTE SCHEDULE C |
| | DENOTES DETAIL REF |
| | REFER TO DENOTED S |
| | DENOTES INTERIOR BE |
| | DENOTES 2X PRESSUR EMBEDDED INTO CONC AT EACH END AND AT WITH THRESHOLD. |
| | DENOTES PLUMBING F LOCATION W/ ARCHITE |
| | |

| DTES |
|---|
| EVELOPERS RESPONSIBILITY ON THE SN & SD SHEETS CTION OF THE STRUCTURE. PPROVAL, THESE BJECT TO CHANGE AND TION. ANY CONSTRUCTION/ SSUANCE IS THE R/BIDDER. |
| |
| NOTES |
| N.I FOR GENERAL |
| Y OTHERS ON FOUNDATION BS SHALL MEET ALL ENTS AND SHALL BE STRUCTURAL FRAMING. |
| SIRUCIURAL FRAMING. |



EGEND

ALL TYPE & MINIMUM LENGTH TO SHEARWALL SCHEDULE ON HR = NO HOLDOWNS REQUIRED DENOTES ALIGNMENT WITH DENOTES ALIGNMENT WITH ... N & POST SIZE REQUIRED AT L. REFER TO HOLDOWN SHEET. E SPECIFICATION. REFER TO E ON THIS SHEET. REFERENCE. D SHEET #.

BEARING WALL. URE TREATED SLEEPER NCRETE. PROVIDE (2) 20d AT 24" OC, TYP AT DOORS

G FIXTURE (VERIFY EXACT HITECTURAL PLANS).





| GRAVITY LOADS | | | | | | |
|--|--|--------------------------------|---------------------------------|---------------------|----------------------------|-------------------|
| GRAVI FOUND LOADS | TY LOADS E ATION PLAN ARE AS FC | XCEEDII MINIP LLOWS: | NG 5K (1UM AN | (D+L) D MAXI | ARE NOTED (MUM EXTERIC | ON THE OR LINE |
| MIN <u>D=200 PLF</u> L=40 PLF | | | | | | |
| MAX <u>D=550 PLF</u> L= 350 PLF | | | |) PLF) PLF | | |
| ADDIT ARE A LOADS | ADDITIONALLY, VERTICAL LOADS FROM THE LATERAL SYSTEM ARE APPLIED AT HOLDOWN LOCATIONS. CORRESPONDING DESIGN LOADS ARE LISTED IN THE TABLE BELOW. | | | | | |
| | | HOLE | DOWI | N SC | HEDULE | |
| TYPE | SIMPSON ^I TYPE | MIN ² HD POST | HD TO CONNE | POST CTION | ANCHOR DIAMETER | 3 DESIGN LOAD |
| | HDU4 | 4X | (10) 1/4X2 SCR | SDS 2 1/2 EWS | 5/8" | 5.0K |
| 19 | HDU8 | 4X | (20) SDS 1/4X2 1/2 SCREWS | | | |
| IA | HDU8 | 4x6 0r 6x6 | | | 7/8" | 8.0K |
| | HDU14 | 4X8 <i>O</i> R 6X6 | (36) 1/4X2 SCR | SDS 2 1/2 EWS | 1 | 15.0K |
| I. SEE | I. SEE DETAIL CC/SN.3 FOR TYPICAL HOLDOWN INSTALLATION. | | | | | |
| 2. HOLDOWN POSTS TO MATCH WALL DEPTH. WHERE 4X6 ¢ 6X6 OPTION IS GIVEN, INSTALL 4X6 IN A 4" WALL, 6X6 IN A 6" WALL. | | | | | | |

| | SHEA | RWALL SCHEDU | JLE | | |
|--|-------------------|-------------------------------|-----------------|--|--|
| | SILL ² | ANCHOR SPACING ^{3,4} | | | |
| TYPE | PLATE | ANCHOR BOLTS | MASA ANCHORS | | |
| | 2X | 1/2"\$ X 10" @ 34" OC | 34" <i>O</i> C | | |
| 4 | 2X | 1/2"\$ X 10" @ 16" OC | 16" OC | | |
| I. SEE DETAIL C/SN.2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN.2 FOR ALLOWABLE SHEARWALL PENETRATIONS. | | | | | |
| 2.3X SILLS TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING. AT 3X SILL PLATES ANCHOR BOLTS ARE 12" LONG AND MASA ANCHORS ARE INSTALLED WITH (9) 10d NAILS. | | | | | |
| 3. EITHER ANCHOR TYPE MAY BE USED. MIN (2) ANCHORS PER SHEARWALL. SEE DETAIL GG/SN.3 FOR INSTALLATION REQUIREMENT. SEE SN.1, SECTION 2.1 FOR MISSED ANCHOR RETROFIT SPECIFICATIONS. | | | | | |
| 4. SEE SN.I SECTION 1.4 FOR ANCHOR PLATE WASHER SPECIFICATIONS. | | | | | |

| SYMBOLS LEG |
|--|
| LENGTH DENOTES SHEARWALL REQUIRED. REFER TO THIS SHEET. WHERE OCCURS, NHR WHERE OCCURS, NHR WHERE OCCURS, DE HOLDOWN ABOVE DENOTES HOLDOWN ¢ END OF SHEARWALL. I SCHEDULE ON THIS SH DENOTES KEYNOTE SF KEYNOTE SCHEDULE O DENOTES DETAIL REF. REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| WHERE OCCURS, NHR WHERE OCCURS, DE HOLDOWN ABOVE DENOTES HOLDOWN & END OF SHEARWALL. I SCHEDULE ON THIS SH DENOTES KEYNOTE SF KEYNOTE SCHEDULE O DENOTES DETAIL REFI REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| WHERE OCCURS, DE HOLDOWN ABOVE DENOTES HOLDOWN & END OF SHEARWALL. I SCHEDULE ON THIS SH DENOTES KEYNOTE SF KEYNOTE SCHEDULE O DENOTES DETAIL REF. REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| DENOTES HOLDOWN & END OF SHEARWALL. I SCHEDULE ON THIS SH DENOTES KEYNOTE SF KEYNOTE SCHEDULE O DENOTES DETAIL REF REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| DENOTES KEYNOTE SF KEYNOTE SCHEDULE C DENOTES DETAIL REF. REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| DENOTES DETAIL REF. REFER TO DENOTED S DENOTES INTERIOR BE DENOTES 2X PRESSUR EMBEDDED INTO CONC |
| REFER TO DENOTED S |
| DENOTES INTERIOR BE |
| DENOTES 2X PRESSUR |
| AT EACH END AND AT WITH THRESHOLD. |
| DENOTES PLUMBING F |

| DTES |
|---|
| VELOPERS RESPONSIBILITY 5 ON THE SN & SD SHEETS CTION OF THE STRUCTURE. |
| BJECT TO CHANGE AND TION. ANY CONSTRUCTION/ SSUANCE IS THE R/BIDDER. |
| |
| NOTES |
| N.I FOR GENERAL |
| Y OTHERS ON FOUNDATION BS SHALL MEET ALL ENTS AND SHALL BE STRUCTURAL FRAMING. |
| |



EGEND

ALL TYPE & MINIMUM LENGTH TO SHEARWALL SCHEDULE ON HR = NO HOLDOWNS REQUIRED DENOTES ALIGNMENT WITH N & POST SIZE REQUIRED AT L. REFER TO HOLDOWN S SHEET. E SPECIFICATION. REFER TO E ON THIS SHEET. REFERENCE.

BEARING WALL. URE TREATED SLEEPER NCRETE. PROVIDE (2) 20d AT 24" OC, TYP AT DOORS

FIXTURE (VERIFY EXACT ITECTURAL PLANS).



| | | FOR JURISDICTIO | ON USE: |
|--|--|---|--|
| 2. PRIOR CONSTR SHALL BIDS P RESPON | THE VOID THE SAND DETAILS ON THE SN & SD SHEETS CORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. TO BUILDING DEPARTMENT APPROVAL, THESE RUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ ERFORMED BEFORE PERMIT ISSUANCE IS THE ISIBILITY OF THE CONTRACTOR/BIDDER. | | |
| 1. UNO FF TO UNI STUD 9 2. COVER UNO A | WALL FRAMING NOTES RAME ALL WALLS CONTINUOUS FROM FLOOR/FOUNDATION DERSIDE OF FLOOR/ROOF FRAMING PER BEARING WALL SCHEDULE & DETAIL B/SN.2. ALL EXTERIOR WALLS WITH SHTG PER SN.1, SECTION 6.2 SHEARWALL LOCATIONS OR AS NOTED ON PLANS. | | |
| TZ'-1 1/2" 10'-1 1/2" TZ'-1 TZ'-1 1/2" TZ'-1 1/2" TZ'-1 TZ | EVEL 1 BEARING WALL STUD SCHEDULE LOCATION SIZE & SPEC 1,2 INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC EXTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC EXTERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC EXTERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | Structural Mechanical Electrical | Plumbing Energy |
| 2. ALL 2) PLATE HEIGHT HEIGHT | K STUDS TO BE SAME DEPTH AS WALL. LEVEL 1 KING STUD SCHEDULE OPENING ¹ KING STUDS ² , ³ , ⁴ 3 ¹ -0" MAX (1) 2X4 OR (1) 2X6 6 ¹ -0" MAX (1) 2X4 OR (2) 2X4 OR (2) 2X6 8 ¹ -0" MAX (2) 2X4 OR (3) 2X4 OR (1) 4X4 OR (1) 2X6 | Sacramento Aliso Viejo San Ramon | 800.877.1430 sandsloan.com |
| 12'-1 1/2" PLATE 10'-1 PLATE 10'-1 (1-COAT 5 STUCCO 0R 0R <siding)< td=""> 0R</siding)<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | Jan toll free www.harris |
| 1. FOR BA SIZE CE 3'-0" OI 2. I-COAT/ OF L/22 LIMIT O DEFLEC 3. PROVID UNO: G4 INTERIO TO 12' I 4. SEE SEC CONNEC | CK TO BACK OPENINGS W/ A FULL HEIGHT CENTER KING, NTER KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) PENINGS = KING FOR A 6'-0" OPENING) 'SIDING WALLS ARE DESIGNED W/ A DEFLECTION LIMIT 0. 3-COAT WALLS ARE DESIGNED W/ A DEFLECTION F L/360. OWNER/CONTRACTOR TO VERIFY MATERIAL TION REQUIREMENTS FOR ALL OTHER FINISHES. E THE FOLLOWING AT NON-STANDARD CONDITIONS MIN, RAGE DOOR & PORCH HEADERS: (2) 2X KING STUDS; R & GARAGE/HOUSE WALLS: (1) 2X KING AT OPENINGS UP NIDE & (2) 2X KINGS AT OPENINGS UP TO 16' WIDE. CTION 6.3 ON SHEET SN.I FOR ADDITIONAL FRAMING TION REQUIREMENTS. | | arris & slo |
| | SIZE # SPEC 1,2,3,5 | | 2 |
| 3'-0" MAX 5'-0" MAX 6'-0" MAX 1. UNO. SE 2. 4X HEAI EXTERIO 3. INSTALL OF HEA 4. SUPPOR FLOOR 5. SEE DE REQUIRI | (2) 2X6 OR 4X6 OR 6X6 (2) 2X8 OR 4X8 OR 6X6 (2) 2X10 OR 4X8 OR 6X6 (2) 2X10 OR 4X8 OR 6X8 E SN.1, SECTION 6.1 FOR MIN DESIGN STRENGTHS. DER MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH OR FACE OF WALL UNO. (1) 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END DER UNO. TS GABLE END TRUSS ONLY; DOES NOT APPLY WHERE DCCURS ABOVE. TAIL T/SN.2 FOR INSULATED HEADER FRAMING, WHERE ED. | | |
| 1. REFER FRAMIN SECTIC PLANS SPECIF 2. SEE DE TYPICAL F PRE-MANU 24" OC, T SHOP DRA CONNECTIC MANUFACT FOLLOWS: SINGLE (MAX 8 (GREAT SINGLE TWO-PI THREE- * OR P TRUSS, NAILS 1 | ROOF FRAMING NOTES TO SECTION 1.6 ON SHEET SN.1 FOR GENERAL ROOF IS SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS N ARE TYPICAL FOR THE CONDITION LISTED; REFER TO FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN IC LOCATIONS. ETAIL P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. ROOF FRAMING: FACTURED ROOF TRUSSES BY TRUSS MANUFACTURER @ FOR ALLOWABLE SPACING DESIGN, MATERIAL, \$ WING REQUIREMENTS. ALL TRUSS TO TRUSS MATERIAL BE PROVIDED BY THE TRUSS URER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS -PLY NON-GIRDER 'SPAN) LUS24* ER THAN 8' SPAN) HUS26 Y GIRDER HUS26 Y GIRDER HUS26 <th>WIM CLUB TA, CA</th> <th>PORATION CE, SUITE 200 D, CA</th> | WIM CLUB TA, CA | PORATION CE, SUITE 200 D, CA |
| | | PROJECT: COTA VERA CHULA V | CLIENT: HOMEFED CC 1903 WRIGHT PL CARLSE CARLSE 920 |
| I ENGTH | SYMBOLS LEGEND | PROJECT MANAG | ier: PJ LK |
| * | REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW | DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | QES PJ 01-13-2023 |
| | DENOTES KEYNOTE SPECIFICATION, REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | STAMP: | F 0.0 |
| | DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. | COLORING OF | E330/4 HL/E00 6 00-24 CTURA CALIFORNIA |
| | DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES SHEATHING REQUIRED AT | PLAN NUMBER: SEC SHEET TITLE: | GMENT 1 |
| | NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON BEADING WALL | LEVEL (ROOF F | 1 PLAN RAMING) |
| | DENOTES BEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANE) | SCALE: 1/4" : SHEET NUMBER: | = 1'-0" |
| | ADJUST FRAMING LAYOUT AS REQUIRED, SEE DETAIL O/SN.2 FOR ALLOWABLE ADJUSTMENTS. ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM. PROVIDE 2X LADDER FRAMING @ 24" OC WHERE FRAMING BAY EXCEEDS 27". TRUSS MFR TO PROVIDE ADD'L FRAMING AS REQUIRED TO CENTER/LOCATE ACCESS AND MAINTAIN MAX SPACING, SAD. | JOB NUMBER: 4 | 12 |

| KEYNOTES | |
|----------|--|
| | |

- (9) 6X6 POST
- CSI6 STRAP TOP PLATE/BEAM TO TRUSS/DRAG MEMBER. SEE DETAIL 433/SD.2 FOR ACCEPTABLE CONNECTIONS. (SEE DETAIL 428 AT ALIGNED TRUSS CONDITION).
 CSI6 STRAP TOP PLATE TO TOP PLATE WHERE TOP PLATES ARE NOT CONT LAPPED PER DETAIL B/SN.2. SEE DETAIL 645/SD 3WHERE TOP FLUSH BEAM OCCURS
- 645/SD.3WHERE TOP FLUSH BEAM OCCURS.
- (13E) CSIG STRAP TOP PLATE/BEAM TO 2X FULL DEPTH BLKG OR BLKG PANELS BETWEEN TRUSSES. EXTEND STRAP UNDER BLKG AS DIMENSIONED ON PLAN. SEE DETAIL 417/SD.2.
- (13F) CSI6 STRAP OVER SHTG, BLKG PANELS TO 2X FLAT BLKG BETWEEN TRUSSES. EXTEND STRAP FULL LENGTH OF BLKG PANELS. SEE DETAIL 427/SD.2.
- (14) (2) CSI6 STRAPS TRUSS TO TOP PLATE/BEAM. SEE DETAIL 428/SD.2.
- (21Z) (2) A35 CLIPS RIM/BEAM TO RIM/BEAM
- 25A 2X WALL/RAKEWALL TO BE BUILT ON TOP OF ROOF SHTG. PROVIDE 2X BLKG BETWEEN TRUSSES OR ALIGN TRUSS/DBL RAFTER DIRECTLY BELOW RAKEWALL. COVER WALLS W/ SHTG PER SN.1, SECTION 6.2. TRUSS MFR TO ACCOUNT FOR ADDITIONAL LOADS. SEE DETAIL 429/SD.2. AS ALT HIGH HEEL VALLEY TRUSSES MAY BE USED IN LIEU OF RAKEWALL (SEE DETAIL 453).
- 28A MANUFACTURED BLKG PANELS BETWEEN TRUSSES, TRUSS BOTTOM CHORDS TO ROOF SHTG. TRUSS MFR TO ALIGN TRUSS VERTICAL @ PANEL LOCATIONS. DESIGN EA PANEL TO TRANSFER 350 PLF. INSTALL ADDITIONAL STRAP FROM TOP OF TOP PLATE/BEAM TO BOTTOM OF BLKG PANELS. SEE DETAIL 419/SD.2.
- (34A) 3 1/2" WIDE 1.5E SCL BEAM, SAME DEPTH AS FLOOR. (34C) 5 1/4" WIDE 2.0E SCL BEAM, SAME DEPTH AS FLOOR.
- 60 PRE-FABRICATED AWNING/COVER, SAD. SEE DETAIL 620/SD.3 FOR STRUCTURAL SUPPORT REQUIREMENTS.
- SHEARWALL SCHEDULE FRAMING² MEMBER AT ADJOINING PANEL EDGE SOLE PLATE CONNECTION^{3,4} TO PLATE 4-7 CONNECTION TO BLOCKING⁵ RIM/BEAM⁷ RIM/BEAM⁷ APA RATED TYPE SHEATHING LTP CLIPS @ 12" OC OR 6" SDWC @ 16" OC 3/8" ONE FACE W/ 8d @ 4" OC EDGE, 16d @ 4" OC 16d @ 2X 4" *O*C 12" OC FIELD (2) ROWS I6d @ 4" OC I6d @ 4" OC ¢ OR (2) LTP5 @ 18" OC ROWS 6" OR 6" SDWC SDWC @ @ 6" OC LTP CLIPS @ 6" OC OR 6" SDWC @ 8" OC 3/8" ONE FACE W/ 4 8d @ 2" OC EDGE 12" OC FIELD ЗX
- 1. SEE DETAIL C/SN.2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN.2 FOR ALLOWABLE SHEARWALL PENETRATIONS. 2.3X FRAMING MEMBERS TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING (SEE DETAIL C/SN.2). DOUBLE 2X MEMBERS SHALL BE CONNECTED W/ (2) ROWS 16d @ 6" OC STAGGERED, FULL HEIGHT. 3. SOLE PLATE TO BE 2X UNO ON PLAN. SOLE PLATE CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND/OR SECOND FLOOR APPLICATIONS ONLY. ALL SHEARWALL NAILING TO SOLE PLATE TO BE STAGGERED WHEN SPACING IS
- LESS THAN 4" OC. SOLE PLATE TO RIM/BEAM/BLKG CONNECTIONS MAY BE OMITTED WHERE SHTG IS LAPPED PER DETAIL H/SN.2 4. WHERE (2) ROWS OF SCREWS ARE SPECIFIED, PROVIDE DOUBLE I 1/4" WIDE SCL RIM/BLOCK. 3 1/2" SCL AND DOUBLE I 3/4" SCL ARE ACCEPTABLE ALTERNATIVES. DOUBLE RIM/BLOCK SHALL BE CONNECTED W/ (2) ROWS 16d @ 4" OC, STAGGERED.
- 5. AVERAGE SPACING TO BLOCKING IS NOTED. SCREW CONNECTIONS TO BLOCKS SHALL HAVE MIN 3" END DISTANCE AND MIN 3" SPACING.
- 6. LTP CLIPS MAY BE EITHER LTP4 OR LTP5 INSTALLED IN THE HORIZONTAL
 ORIENTATION, WHERE CLIPS ARE REQUIRED ON EA FACE RIM/BLKG TO BE SAME WIDTH AS WALL UNO. SCREWS (SIMPSON HARDWARE ONLY) ARE TO BE INSTALLED FROM UNDERSIDE OF DOUBLE 2X TOP PLATES INTO BOTT OF RIM/BEAM/BLOCKING. 7. CONNECTION MAY BE OMITTED WHERE SHEAR IS LAPPED PER DETAIL H/SN.2, PROVIDE MIN 16d @ 12" OC SOLE PLATE TO RIM. AT DBL-SIDED SHEARWALLS WHERE SHTG IS LAPPED ON ONLY (1) SIDE OF THE WALL IT IS ACCEPTABLE TO ELIMINATE CLIPS ON (1) SIDE OF THE WALL OR DOUBLE THE SPECIFIED NAILING/SCREW SPACING.

| | | FOR JURISDICTI | ON USE: |
|--|--|--|--|
| AND INCORF AND INCORF PRIOR TO E CONSTRUCT SHALL NOT BIDS PERFO RESPONSIBI | ALL NOTES AND DETAILS ON THE SN & SD SHEETS PORATE IN THE CONSTRUCTION OF THE STRUCTURE. BUILDING DEPARTMENT APPROVAL, THESE ION DOCUMENTS ARE SUBJECT TO CHANGE AND BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ DRMED BEFORE PERMIT ISSUANCE IS THE LITY OF THE CONTRACTOR/BIDDER. | | |
| I. UNO FRAME TO UNDERS STUD SCHE 2. COVER ALL UNO AT SH | WALL FRAMING NOTES E ALL WALLS CONTINUOUS FROM FLOOR/FOUNDATION DIDE OF FLOOR/ROOF FRAMING PER BEARING WALL DULE ¢ DETAIL B/SN.2. . EXTERIOR WALLS WITH SHTG PER SN.1, SECTION 6.2 EARWALL LOCATIONS OR AS NOTED ON PLANS. | | |
| LEVE PLATE HEIGHT LOC INT INT INT INT INT INT INT INT | L 1 BEARING WALL STUD SCHEDULE CATION SIZE & SPEC ¹ , ² TERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC TERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC TERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC TERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC TERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC TERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | Structural Mechanical Electrical | Plumbing Energy |
| PLATE OP HEIGHT W | UDS TO BE SAME DEPTH AS WALL. LEVEL 1 KING STUD SCHEDULE ENING ¹ IDTH "MAX (1) 2X4 OR (1) 2X6 | iramento iso Viejo Ramon | 77.1430 oan.com |
| 10'-1 1/2" PLATE (1-COAT STUCCO OR SIDING) 15'-0 16'-0 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Sac Ali Sar | toll free 800.8 www.harrisandsl |
| LLCOLLS LLCOLLS LLCOLLS LCO | " MAX (1) 2X6 " MAX (2) 2X6 " MAX (2) 2X6 " MAX (2) 2X6 TO BACK OPENINGS W/ A FULL HEIGHT CENTER KING, P KING FOR SUM OF OPENING WIDTUG (EVAMPLE, (2)) | | sloan |
| 5/2E CENTE 3'-0" OPENII 2: I-COAT/SIDI OF L/240. 3 LIMIT OF L/ DEFLECTION 3: PROVIDE TH UNO: GARAG INTERIOR ¢ TO 12' WIDE 4: SEE SECTION CONNECTION | R KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) NGS = KING FOR A 6'-O" OPENING) NG WALLS ARE DESIGNED W/ A DEFLECTION LIMIT -COAT WALLS ARE DESIGNED W/ A DEFLECTION 360. OWNER/CONTRACTOR TO VERIFY MATERIAL REQUIREMENTS FOR ALL OTHER FINISHES. HE FOLLOWING AT NON-STANDARD CONDITIONS MIN, HE DOOR ¢ PORCH HEADERS: (2) 2X KING STUDS; GARAGE/HOUSE WALLS: (1) 2X KING AT OPENINGS UP ¢ (2) 2X KINGS AT OPENINGS UP TO 16' WIDE. N 6.3 ON SHEET SN.I FOR ADDITIONAL FRAMING REQUIREMENTS. | | arris & s |
| 0PENING 3'-0" MAX | SIZE & SPEC ^{1,2,3,5} (2) 2X6 OR 4X6 OR 6X6 | | |
| 5'-0" MAX 6'-0" MAX 2. UNO. SEE SI 2. 4X HEADER EXTERIOR F 3. INSTALL (1) OF HEADER 4. SUPPORTS O FLOOR OCCL 5. SEE DETAIL REQUIRED. | (2) 2X8 OR 4X8 OR 6X6 (2) 2X10 OR 4X8 OR 6X8 N.1, SECTION 6.1 FOR MIN DESIGN STRENGTHS. MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH ACE OF WALL UNO. 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END UNO. GABLE END TRUSS ONLY; DOES NOT APPLY WHERE JRS ABOVE. T/SN.2 FOR INSULATED HEADER FRAMING, WHERE | | |
| I. REFER TO FRAMING S SECTION AI PLANS FOR SPECIFIC L 2. SEE DETAII TYPICAL ROOF PRE-MANUFAC 24" OC, TYP. SHOP DRAWING CONNECTIONS MANUFACTURE FOLLOWS: | ROOF FRAMING NOTES SECTION 1.6 ON SHEET SN.I FOR GENERAL ROOF PECIFICATIONS. ALL FRAMING MEMBERS IN THIS RE TYPICAL FOR THE CONDITION LISTED; REFER TO ALTERNATE SPECIFICATIONS WHERE REQUIRED IN OCATIONS. L P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. FRAMING: TURED ROOF TRUSSES BY TRUSS MANUFACTURER @ SEE SN.1, SECTION 6.7 FOR DESIGN, MATERIAL, & GREQUIREMENTS. ALL TRUSS TO TRUSS SHALL BE PROVIDED BY THE TRUSS R. TRUSS TO BUILDING CONNECTIONS SHALL BE AS | | - |
| SINGLE-PLY (MAX 8' SP (GREATER SINGLE-PLY TWO-PLY G THREE-PLY * OR PRESS TRUSS, (2) | NON-GIRDER AN)LUS24* THAN 8' SPAN)HUS26 GIRDERHUS26 GIRDERHGUS26-2 GIRDERHGUS28-3 SURE BLOCKING: (4) 16d BLOCK TO CARRIER (4) 16d TOE NAILS BC TO CARRIER, (2) 16d END | IIM CLUB , cA | ORATION SUITE 200 CA |
| | | | CLIENT: HOMEFED C 1903 WRIGHT P CARLS 02 |
| LENGTH | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH | DESIGNER: | LK DEG |
| | REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW | CHECKED BY: ISSUE DATE: REVISIONS: | PJ 01-13-2023 |
| | DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | STAMP: | |
| | - DENOTES DETAIL REFERENCE IS AN ELEVATION. - REFER TO DENOTED SHEET #. | State No. | 5550 5550 6,00-24 |
| | DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. | PLAN | CTURAL * |
| | - DENOTES BEARING WALL. DENOTES SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN - WHERE OCCURS, DENOTES WALL ABOVE. | SHEET TITLE: LEVEL | 3MENT 1 |
| | - DENOTES INTERIOR NON-BEARING WALL. | | raiviiNG) |
| | DENOTES BEAM OR HEADER. REFER TO BEAM — SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES PLUMBING FIXTURE ABOVE (VERIFY _ EXACT LOCATION W/ ARCHITECTURAL PLANS). ADJUST FRAMING LAYOUT AS REQUIRED, SEE DETAIL O/SN.2 FOR ALLOWABLE ADJUSTMENTS. | SCALE: 1/4" SHEET NUMBER: | = 1'-0" |
| - | ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM. PROVIDE 2X LADDER FRAMING @ 24" OC WHERE FRAMING BAY EXCEEDS 27". TRUSS MFR TO PROVIDE ADD'L FRAMING AS REQUIRED TO CENTER/LOCATE ACCESS AND MAINTAIN MAX SPACING, SAD. | JOB NUMBER: 4 | 1 . |





| | GENERAL NOTES | FOR URISDICTI | ON USF: |
|--|--|---|--|
| 1. IT IS T TO REV AND IN 2. PRIOR | HE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY (IEW ALL NOTES AND DETAILS ON THE SN & SD SHEETS CORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. TO BUILDING DEPARTMENT APPROVAL, THESE | | |
| CONSTR SHALL BIDS P RESPON | RUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ ERFORMED BEFORE PERMIT ISSUANCE IS THE ISIBILITY OF THE CONTRACTOR/BIDDER. | | |
| 1. UNO FF | WALL FRAMING NOTES | | |
| STUD 2. COVER UNO A | SCHEDULE & DETAIL B/SN.2. ALL EXTERIOR WALLS WITH SHTG PER SN.1, SECTION 6.2 SHEARWALL LOCATIONS OR AS NOTED ON PLANS. | | |
| LI PLATE HEIGHT | EVEL 1 BEARING WALL STUD SCHEDULE LOCATION SIZE \$ SPEC 1,2 | | |
| 7'-1 1/2" PLATE | INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC EXTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | ਸ਼ | |
| -1 1/2" 10 LATE | INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | ctural hanica trical | gnidr gy |
| I. UNLES | EXTERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC 5 NOTED OTHERWISE (STUDS TO BE SAME DEPTH AS WALL. | Stru Mec Elec | Ene |
| PLATE | LEVEL 1 KING STUD SCHEDULE | nento Viejo amon | 1430 com |
| HEIGHT ш О | WIDTH KING STUDS -/-/-/ 3'-0" MAX (1) 2X4 OR (1) 2X6 | acran Aliso San Rá | 0.877. Jsloar |
| /2" PLATI AT STUCC SIDING) | 8'-0" MAX (1) 2X4 OR (2) 2X4 OR (2) 2X4 OR (2) 2X6 8'-0" MAX (2) 2X4 OR (3) 2X4 OR (1) 4X4 OR (1) 2X6 | S OJ | ee 80(risanc |
| 10'-1 1, (1-C0A 0R | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | toll fr /w.har |
| 1/2" TE DAT CCO DING) | 16'-0" MAX OR (2) 2X6 8'-0" MAX (1) 2X6 | | n |
| PLA PLA STUCO STUCO STUCO | 12'-0" MAX (2) 2X6 16'-0" MAX (2) 2X6 | | 09 |
| 1. FOR BA SIZE CE 3'-0" 0 2. 1-COAT | CK TO BACK OPENINGS W/ A FULL HEIGHT CENTER KING, NTER KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) PENINGS = KING FOR A 6'-0" OPENING) (SIDING WALLS ARE DESIGNED W/ A DEFLECTION LIMIT | | S S |
| UF L/22 LIMIT C DEFLEC 3. PROVID UNO: GA | 10. 3-COAT WALLS ARE DESIGNED W/ A DEFLECTION F L/360. OWNER/CONTRACTOR TO VERIFY MATERIAL TION REQUIREMENTS FOR ALL OTHER FINISHES. E THE FOLLOWING AT NON-STANDARD CONDITIONS MIN, RRAGE DOOR # PORCH HEADERS: (2) 2X KING STUDS; | | S |
| INTERIC TO 12' 1 4. SEE SE CONNEC | R & GARAGE/HOUSE WALLS: (1) 2X KING AT OPENINGS UP NIDE & (2) 2X KINGS AT OPENINGS UP TO 16' WIDE. CTION 6.3 ON SHEET SN.1 FOR ADDITIONAL FRAMING TION REQUIREMENTS. | | arri |
| LE OPENING | /EL 1 BEARING WALL HEADER SCHEDULE SIZE \$ SPEC 1,2,3,5 | | hà |
| 3'-0" MAX 5'-0" MAX 6'-0" MAX | (2) 2X6 OR 4X6 OR 6X6 (2) 2X8 OR 4X8 OR 6X6 (2) 2X10 OR 4X8 OR 6X8 | | |
| UNO. SE 4X HEA EXTERIO INSTALL | DER MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH DR FACE OF WALL UNO. . (1) 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END | | |
| 4. SUPPOR FLOOR 5. SEE DE | TS GABLE END TRUSS ONLY; DOES NOT APPLY WHERE OCCURS ABOVE. TAIL T/SN.2 FOR INSULATED HEADER FRAMING, WHERE | | |
| I. REFER | ROOF FRAMING NOTES | | |
| FRAMIN SECTIC PLANS SPECIF | IG SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS N ARE TYPICAL FOR THE CONDITION LISTED; REFER TO FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN IC LOCATIONS. | | |
| 2. SEE DI <u>TYPICAL I</u> PRE-MANU 24" OC, T | TAIL P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. <u>200F FRAMING:</u> FACTURED ROOF TRUSSES BY TRUSS MANUFACTURER @ YP. SEE SN.I, SECTION 6.7 FOR DESIGN, MATERIAL, ¢ UNIC DESIGN MATERIAL, ¢ | | |
| CONNECTION MANUFACT FOLLOWS: | WING REQUIREMENTS. ALL TRUSS TO TRUSS ONS SHALL BE PROVIDED BY THE TRUSS URER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS | | z |
| (MAX 8 (GREA SINGLE | -PLT NUN-GIRDER ' SPAN) LUS24* TER THAN 8' SPAN) HUS26 -PLY GIRDER HUS26 Y GIRDER HGUS26 | | ATIO TE 200 |
| THREE * OR P TRUSS NAILS | PLY GIRDERHGUS28-3 RESSURE BLOCKING: (4) 16d BLOCK TO CARRIER (2) 16d TOE NAILS BC TO CARRIER, (2) 16d END BC TO BLOCK. | A, CA | POR , E, SUI |
| | | A SI | COR PLAC SBAD 2008 |
| | | VER ∺HULA | ED (IGHT CARL |
| | | | MEF 33 WR |
| | | ŭ | HO 190 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | JECT: | |
| | | PRO | ÷ × |
| | | PROJECT MANAG | CLIENT: |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED REFER TO SHEARWALL SCHEDULE ON | DESIGNER: | ER: PJ LK |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: | ËR: РЈ LK QES РЈ 01-13-2023 |
| *- | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| * | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | PROJECT MANAGE | ECON |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET # | PROJECT MANAGE | ESSION |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: | ESSON TO THE |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: | ESSOURCE |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: Explored PLAN NUMBER: SEC | ESSOURCE PJ 01-13-2023 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-2025 ESSOURCE PJ 01-13-20 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES BEARING WALL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: EXPLOSE EX | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES SHEATHING REQUIRED AT NON-SHEARMALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: | ESSION LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES BEARING WALL. DENOTES SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALLE FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F | ESSION TURN CALIFOR CALIFOR CALI |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED, REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES BEARING WALL. DENOTES SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES BEARING WALL DENOTES BEARING WALL HEADER REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES INTERIOR NON-BEARING WALL. DENOTES DELIMING FIXTURE ABOVE (VERIFY EXACT LOCATION W ARCHITECTURAL PLANS), ADJUST FRAMING LAYOUT AS REQUIRED, SEE DENATES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: SCALE: 1/4" SHEET NUMBER: CALE: 1/4" | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARMALL TYPE & MINIMUM LENGTH REQUIRED, REFER TO SHEARMALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARMALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION, REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES SHEATHING AFOLICATION. COVER WALL FULL HEGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES BEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES BEAM OR HEADER. REFER TO BEAM OTHIS SHEET. DENOTES INTERIOR NON-BEARING WALL DENOTES DEAM OR HEADER. REFER TO BEAM OTHIS SHEET. DENOTES DEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHED | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F SCALE: 1/4" SHEET: NUMBER: SCALE: 1/4" | ESSION TURN CALIFORNIA TURN CALIFORNIA ESSION ES |

| | GENERAL NOTES | FOR URISDICTI | ON USF: |
|--|--|---|--|
| 1. IT IS T TO REV AND IN 2. PRIOR | HE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY (IEW ALL NOTES AND DETAILS ON THE SN & SD SHEETS CORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. TO BUILDING DEPARTMENT APPROVAL, THESE | | |
| CONSTR SHALL BIDS P RESPON | RUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ ERFORMED BEFORE PERMIT ISSUANCE IS THE ISIBILITY OF THE CONTRACTOR/BIDDER. | | |
| 1. UNO FF | WALL FRAMING NOTES | | |
| STUD 2. COVER UNO A | SCHEDULE & DETAIL B/SN.2. ALL EXTERIOR WALLS WITH SHTG PER SN.1, SECTION 6.2 SHEARWALL LOCATIONS OR AS NOTED ON PLANS. | | |
| LI PLATE HEIGHT | EVEL 1 BEARING WALL STUD SCHEDULE LOCATION SIZE \$ SPEC 1,2 | | |
| 7'-1 1/2" PLATE | INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC EXTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | ਸ਼ | |
| -1 1/2" 10 LATE | INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | ctural hanica trical | gnidr gy |
| I. UNLES | EXTERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC 5 NOTED OTHERWISE (STUDS TO BE SAME DEPTH AS WALL. | Stru Mec Elec | Ene |
| PLATE | LEVEL 1 KING STUD SCHEDULE | nento Viejo amon | 1430 com |
| HEIGHT ш О | WIDTH KING STUDS -/-/-/ 3'-0" MAX (1) 2X4 OR (1) 2X6 | acran Aliso San Rá | 0.877. Jsloar |
| /2" PLATI AT STUCC SIDING) | 8'-0" MAX (1) 2X4 OR (2) 2X4 OR (2) 2X4 OR (2) 2X6 8'-0" MAX (2) 2X4 OR (3) 2X4 OR (1) 4X4 OR (1) 2X6 | S OJ | ee 80(risanc |
| 10'-1 1, (1-C0A 0R | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | toll fr /w.har |
| 1/2" TE DAT CCO DING) | 16'-0" MAX OR (2) 2X6 8'-0" MAX (1) 2X6 | | n |
| PLA PLA STUCO STUCO STUCO | 12'-0" MAX (2) 2X6 16'-0" MAX (2) 2X6 | | 09 |
| 1. FOR BA SIZE CE 3'-0" 0 2. 1-COAT | CK TO BACK OPENINGS W/ A FULL HEIGHT CENTER KING, NTER KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) PENINGS = KING FOR A 6'-0" OPENING) (SIDING WALLS ARE DESIGNED W/ A DEFLECTION LIMIT | | S S |
| UF L/22 LIMIT C DEFLEC 3. PROVID UNO: GA | 10. 3-COAT WALLS ARE DESIGNED W/ A DEFLECTION F L/360. OWNER/CONTRACTOR TO VERIFY MATERIAL TION REQUIREMENTS FOR ALL OTHER FINISHES. E THE FOLLOWING AT NON-STANDARD CONDITIONS MIN, RRAGE DOOR # PORCH HEADERS: (2) 2X KING STUDS; | | S |
| INTERIC TO 12' 1 4. SEE SE CONNEC | R & GARAGE/HOUSE WALLS: (1) 2X KING AT OPENINGS UP NIDE & (2) 2X KINGS AT OPENINGS UP TO 16' WIDE. CTION 6.3 ON SHEET SN.I FOR ADDITIONAL FRAMING TION REQUIREMENTS. | | arri |
| LE OPENING | /EL 1 BEARING WALL HEADER SCHEDULE SIZE \$ SPEC 1,2,3,5 | | hà |
| 3'-0" MAX 5'-0" MAX 6'-0" MAX | (2) 2X6 OR 4X6 OR 6X6 (2) 2X8 OR 4X8 OR 6X6 (2) 2X10 OR 4X8 OR 6X8 | | |
| UNO. SE 4X HEA EXTERIO INSTALL | DER MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH DR FACE OF WALL UNO. . (1) 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END | | |
| 4. SUPPOR FLOOR 5. SEE DE | TS GABLE END TRUSS ONLY; DOES NOT APPLY WHERE OCCURS ABOVE. TAIL T/SN.2 FOR INSULATED HEADER FRAMING, WHERE | | |
| I. REFER | ROOF FRAMING NOTES | | |
| FRAMIN SECTIC PLANS SPECIF | IG SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS N ARE TYPICAL FOR THE CONDITION LISTED; REFER TO FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN IC LOCATIONS. | | |
| 2. SEE DI <u>TYPICAL I</u> PRE-MANU 24" OC, T | TAIL P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. <u>200F FRAMING:</u> FACTURED ROOF TRUSSES BY TRUSS MANUFACTURER @ YP. SEE SN.I, SECTION 6.7 FOR DESIGN, MATERIAL, ¢ UNIC DESIGN MATERIAL, ¢ | | |
| CONNECTION MANUFACT FOLLOWS: | WING REQUIREMENTS. ALL TRUSS TO TRUSS ONS SHALL BE PROVIDED BY THE TRUSS URER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS | | z |
| (MAX 8 (GREA SINGLE | -PLT NUN-GIRDER ' SPAN) LUS24* TER THAN 8' SPAN) HUS26 -PLY GIRDER HUS26 Y GIRDER HGUS26 | | ATIO TE 200 |
| THREE * OR P TRUSS NAILS | PLY GIRDERHGUS28-3 RESSURE BLOCKING: (4) 16d BLOCK TO CARRIER (2) 16d TOE NAILS BC TO CARRIER, (2) 16d END BC TO BLOCK. | A, CA | POR , E, SUI |
| | | A SI | COR PLAC SBAD 2008 |
| | | VER ∺HULA | ED (IGHT CARL |
| | | | MEF 33 WR |
| | | ŭ | HO 190 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | JECT: | |
| | | PRO | ÷ × |
| | | PROJECT MANAG | CLIENT: |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED REFER TO SHEARWALL SCHEDULE ON | DESIGNER: | ER: PJ LK |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: | ËR: РЈ LK QES РЈ 01-13-2023 |
| *- | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| * | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: | ECON |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET # | PROJECT MANAGE | ESSION |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: | ESSON TO THE |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: | ESSOURCE |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: Explored PLAN NUMBER: SEC | ESSOURCE PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES BEARING WALL. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: EXPLOSE EX | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES SHEATHING REQUIRED AT NON-SHEARMALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: | ESSION LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES BEARING WALL. DENOTES SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES SHEATHING REQUIRED AT NON-SHEARWALL LOCATION. COVER WALLE FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F SCALE: 1/4" | ESSION TURN CALIFOR CALIFOR CALI |
| | SYMBOLS LEGEND DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED, REFER TO SHEARWALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES BEARING WALL. DENOTES SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES BEARING WALL DENOTES BEARING WALL HEADER REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES INTERIOR NON-BEARING WALL. DENOTES DELIMING FIXTURE ABOVE (VERIFY EXACT LOCATION W ARCHITECTURAL PLANS), ADJUST FRAMING LAYOUT AS REQUIRED, SEE DENATES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: SCALE: 1/4" SHEET NUMBER: | ER: PJ LK QES PJ 01-13-2023 |
| | SYMBOLS LEGEND DENOTES SHEARMALL TYPE & MINIMUM LENGTH REQUIRED, REFER TO SHEARMALL SCHEDULE ON THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARMALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN BELOW DENOTES KEYNOTE SPECIFICATION, REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. DENOTES DETAIL REFERENCE IS AN ELEVATION. REFER TO DENOTED SHEET #. DENOTES LOCATION OF OVERFRAMING/VALLEY TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL. DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. DENOTES BEARING WALL. DENOTES SHEATHING AFOLICATION. COVER WALL FULL HEGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN WHERE OCCURS, DENOTES WALL ABOVE. DENOTES INTERIOR NON-BEARING WALL. DENOTES BEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. DENOTES BEAM OR HEADER. REFER TO BEAM OTHIS SHEET. DENOTES INTERIOR NON-BEARING WALL DENOTES DEAM OR HEADER. REFER TO BEAM OTHIS SHEET. DENOTES DEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHED | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: STAMP: PLAN NUMBER: SEC SHEET TITLE: LEVEL (ROOF F SCALE: 1/4" SHEET: NUMBER: SCALE: 1/4" | ESSION TURN CALIFORNIA TURN CALIFORNIA ESSION ES |

| . IT IS T | GENERAL NOTES HE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY | FOR JURISDICT | ION USE: |
|---|--|----------------------------|-----------------------------|
| TO REV AND ING 2. PRIOR CONSTR | TEW ALL NOTES AND DETAILS ON THE SN & SD SHEETS CORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. TO BUILDING DEPARTMENT APPROVAL, THESE RUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND | | |
| SHALL BIDS P RESPON | NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ ERFORMED BEFORE PERMIT ISSUANCE IS THE ISIBILITY OF THE CONTRACTOR/BIDDER. | | |
| I. UNO FF TO UNI | WALL FRAMING NOTES RAME ALL WALLS CONTINUOUS FROM FLOOR/FOUNDATION DERSIDE OF FLOOR/ROOF FRAMING PER BEARING WALL | | |
| STUD S 2. COVER UNO A | 5CHEDULE & DETAIL B/SN.2. ALL EXTERIOR WALLS WITH SHTG PER SN.1, SECTION 6.2 SHEARWALL LOCATIONS OR AS NOTED ON PLANS. | | |
| PLATE HEIGHT | EVEL 1 BEARING WALL STUD SCHEDULE LOCATION SIZE # SPEC 1,2 | | |
| -1 1/2" LATE | INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | | |
| /2" 0'- TE PI | EXTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC INTERIOR 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | ural anical cal | y V |
| 12'-1 1 PLA | EXTERIOR (2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC | Struct Aecha Electri | Iumb |
| 1. UNLES: 2. ALL 2) | 6 NOTED OTHERWISE (STUDS TO BE SAME DEPTH AS WALL. | on to E | <u>а 8</u> |
| PLATE HEIGHT | OPENING ¹ KING STUDS 2,3,4 WIDTH KING STUDS 2,3,4 | amen so Vie Ramo | 77.14; an.co |
| ATE JCCO G) | 3'-0" MAX (1) 2X4 OR (1) 2X6 6'-0" MAX (1) 2X4 OR (2) 2X4 OR (2) 2X6 | Sacr Alis San | 00.87 00sh |
| I 1/2" PL OAT STU DR SIDIN | 8'-0" MAX (2) 2X4 OR (3) 2X4 OR (1) 4X4 OR (1) 2X6 10'-0" MAX (2) 2X4 OR (4) 2X4 OR (1) 4X6 OR (1) 2X6 | | free 8 arrisa |
| 0-1) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | toll ww.h |
| NZE OAT CCCO DING) | 8 ¹ -0 ¹¹ MAX (1) 2X6 | | an |
| | 16'-0" MAX (2) 2X6 | | 09 |
| FOR BA SIZE CE 3'-0" OI 7. 1-COAT | CK TO BACK OPENINGS W/ A FULL HEIGHT CENTER KING, NTER KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) PENINGS = KING FOR A 6'-0" OPENING) SIDING WALLS ARE DESIGNED W/ A DEFLECTION LIMIT | | |
| UF L/22 LIMIT O DEFLEC | 10. 3-COAT WALLS ARE DESIGNED W/ A DEFLECTION F L/360. OWNER/CONTRACTOR TO VERIFY MATERIAL TION REQUIREMENTS FOR ALL OTHER FINISHES. E THE FOLLOWING AT NON-STANDARD CONDITIONS MIN, | | S S |
| UNO: GA INTERIO TO 12' J | RAGE DOOR & PORCH HEADERS: (2) 2X KING 510DS; R & GARAGE/HOUSE WALLS: (1) 2X KING AT OPENINGS UP NIDE & (2) 2X KINGS AT OPENINGS UP TO 16' WIDE. CTION 6.3 ON SHEET SN.1 FOR ADDITIONAL FRAMING | | Irri |
| LE | /EL 1 BEARING WALL HEADER SCHEDULE | | ha |
| 0PENING 3'-0" MAX 5'-0" MAX | (2) 2X6 OR 4X6 OR 6X6 (2) 2X8 OR 4X8 OR 6X6 | | |
| 6'-0" MAX UNO. SE . 4X HEAI EXTERIO | (2) 2XIO OR 4X8 OR 6X8 E SN.1, SECTION 6.1 FOR MIN DESIGN STRENGTHS. DER MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH DR FACE OF WALL UNO. | | |
| . INSTALL OF HEA . SUPPOR | (1) 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END DER UNO. TS GABLE END TRUSS ONLY; DOES NOT APPLY WHERE | | |
| . SEE DE REQUIRI | TAIL T/SN.2 FOR INSULATED HEADER FRAMING, WHERE | | |
| I. REFER FRAMIN | ROOF FRAMING NOTES TO SECTION I.6 ON SHEET SN.I FOR GENERAL ROOF IG SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS | | |
| SECTIC PLANS SPECIF 2. SEE DE | FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN IC LOCATIONS. TAIL P/SN.2 FOR ALLOWABLE SPACING ADJUSTMENTS. | | |
| <u>TYPICAL F</u> PRE-MANL 24" <i>O</i> C, T 5HOP DRA | 200F FRAMING: FACTURED ROOF TRUSSES BY TRUSS MANUFACTURER @ YP. SEE SN.I, SECTION 6.7 FOR DESIGN, MATERIAL, \$ WING REQUIREMENTS. ALL TRUSS TO TRUSS | | |
| CONNECTIC MANUFACT FOLLOWS: SINGLE | WS SHALL BE PROVIDED BY THE TRUSS URER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS -PLY NON-GIRDER | m | No |
| (MAX 8 (GREAT SINGLE TWO-PI | ' SPAN) LUS24* ER THAN 8' SPAN) HUS26 -PLY GIRDER | | ATIC TE 200 |
| THREE- * OR P TRUSS, | PLY GIRDERHGUS28-3 RESSURE BLOCKING: (4) I6d BLOCK TO CARRIER (2) I6d TOE NAILS BC TO CARRIER, (2) I6d END | VIM (| E, SUI CA |
| | | A SV VIST | PLAC SBAD 2008 |
| | | VER. | ED C IGHT CARL3 9 |
| | | DTA 0 | MEF 33 WR |
| | | U U U | HOI 190 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | OJECT: | IENT: |
| | | PROJECT MANA | GER: PJ |
| | DENOTES SHEARWALL TYPE ¢ MINIMUM LENGTH REQUIRED, REFER TO SHEARWALL SCHEDULE ON | DESIGNER: DRAWN BY: | LK QES |
| | THIS SHEET. WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED | CHECKED BY: | PJ 01-13-2023 |
| *- | WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE DENOTES HOLDOWN & POST SIZE REQUIRED AT | REVISIONS: | |
| $\mathbf{\mathbf{x}}$ | END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET (WHERE OCCURS). WHERE OCCURS, DENOTES ALIGNMENT WITH | | |
| \bigcirc | DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. | | |
| \bigcirc | DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | STAMP: | |
| Ă | DENOTES DETAIL REFERENCE IS AN ELEVATION. | KRED PRO | FESSIONAL LLIED CHES |
| | - REFER TO DENOTED SHEET #. | EXD. | 5550 日第 36-30-24 |
| | TRUSSES. SEE DETAIL A/SN.2 DENOTES EXTENTS OF CONTINUOUS 2X BACKING. REFER TO APPLICABLE DETAIL | TO F | CALIFORN |
| | DENOTES EXTENTS OF BLOCKED & EDGE NAILED DIAPHRAGM. REFER TO APPLICABLE KEYNOTE. | PLAN NUMBER: | |
| | DENOTES BEARING WALL. | SHEET TITLE: | οινιείντι 2 |
| | NON-SHEARWALL LOCATION. COVER WALL FULL HEIGHT. SHEATHING THICKNESS AND NAILING AS NOTED ON PLAN | | |
| | WHERE OCCURS, DENOTES WALL ABOVE. | LEVEL | 1 PLAN RAMING) |
| | DENOTES INTERIOR NON-BEARING WALL. | Ì | |
| | DENOTES BEAM OR HEADER. REFER TO BEAM SCHEDULE/BEARING WALL HEADER SCHEDULE ON THIS SHEET. | SCALE: 1/4" | = 1'-0" |
| | DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). ADJUST FRAMING LAYOUT AS REQUIRED, SEE DETAIL O/SN.2 FOR ALLOWABLE AD.IUSTMENTS | | ^ |
| | ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM. PROVIDE 2X LADDER FRAMING @ 24" | 16 | .ZA |
| | MFR TO PROVIDE ADD'L FRAMING AS REQUIRED TO CENTER/LOCATE ACCESS AND MAINTAIN MAX SPACING, SAD. | JOB NUMBER: | 4522244 |

KEYNOTES 9 6X6 POST

- CSI6 STRAP TOP PLATE/BEAM TO TRUSS/DRAG MEMBER. SEE DETAIL 433/SD.2 FOR ACCEPTABLE CONNECTIONS. (SEE DETAIL 428 AT ALIGNED TRUSS CONDITION).
 CSI6 STRAP TOP PLATE TO TOP PLATE WHERE TOP PLATES ARE NOT CONT LAPPED PER DETAIL B/SN.2. SEE DETAIL 645/SD.3WHERE TOP FLUSH BEAM OCCURS.
- (I3E) CSI6 STRAP TOP PLATE/BEAM TO 2X FULL DEPTH BLKG OR BLKG PANELS BETWEEN TRUSSES. EXTEND STRAP UNDER BLKG AS DIMENSIONED ON PLAN. SEE DETAIL 417/SD.2.
- (13F) CSI6 STRAP OVER SHTG, BLKG PANELS TO 2X FLAT BLKG BETWEEN TRUSSES. EXTEND STRAP FULL LENGTH OF BLKG PANELS. SEE DETAIL 427/SD.2.
- (14) (2) CSI6 STRAPS TRUSS TO TOP PLATE/BEAM. SEE DETAIL 428/SD.2.
- (21Z) (2) A35 CLIPS RIM/BEAM TO RIM/BEAM
- 25A 2X WALL/RAKEWALL TO BE BUILT ON TOP OF ROOF SHTG. PROVIDE 2X BLKG BETWEEN TRUSSES OR ALIGN TRUSS/DBL RAFTER DIRECTLY BELOW RAKEWALL. COVER WALLS W/ SHTG PER SN.1, SECTION 6.2. TRUSS MFR TO ACCOUNT FOR ADDITIONAL LOADS. SEE DETAIL 429/SD.2. AS ALT HIGH HEEL VALLEY TRUSSES MAY BE USED IN LIEU OF RAKEWALL (SEE DETAIL 453) DETAIL 453).
- (28A) MANUFACTURED BLKG PANELS BETWEEN TRUSSES, TRUSS BOTTOM CHORDS TO ROOF SHTG. TRUSS MFR TO ALIGN TRUSS VERTICAL @ PANEL LOCATIONS. DESIGN EA PANEL TO TRANSFER 350 PLF. INSTALL ADDITIONAL STRAP FROM TOP OF TOP PLATE/BEAM TO BOTTOM OF BLKG PANELS. SEE DETAIL 410/5D 2 SEE DETAIL 419/SD.2. (34A) 3 1/2" WIDE 1.5E SCL BEAM, SAME DEPTH AS FLOOR.
- (34C) 5 1/4" WIDE 2.0E SCL BEAM, SAME DEPTH AS FLOOR.
- 60 PRE-FABRICATED AWNING/COVER, SAD. SEE DETAIL 620/SD.3 FOR STRUCTURAL SUPPORT REQUIREMENTS.

SHEARWALL SCHEDULE FRAMING² MEMBER AT ADJOINING PANEL EDGE SOLE PLATE CONNECTION^{3,4} TO BLOCKING⁵ RIM/BEAM⁷ TO RIM/BEAM/BLKG APA RATED TYPE SHEATHING LTP CLIPS @ 12" OC OR 6" SDWC @ 16" OC 3/8" ONE FACE W/ 8d @ 4" OC EDGE, 16d @ 4" OC 16d @ 2X 4" *O*C 2 | 12" OC FIELD LTP CLIPS @ 6" OC OR 6" SDWC @ 8" OC 3/8" ONE FACE W/ A 8d @ 2" OC EDGE 12" OC FIELD ЗX 1. SEE DETAIL C/SN.2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN.2 FOR ALLOWABLE SHEARWALL PENETRATIONS. 2.3X FRAMING MEMBERS TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING (SEE DETAIL C/SN.2). DOUBLE 2X MEMBERS SHALL BE CONNECTED W/ (2) ROWS 16d @ 6" OC STAGGERED, FULL HEIGHT. 3. SOLE PLATE TO BE 2X UNO ON PLAN. SOLE PLATE CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND/OR SECOND FLOOR APPLICATIONS ONLY. ALL SHEARWALL NAILING TO SOLE PLATE TO BE STAGGERED WHEN SPACING IS LESS THAN 4" OC. SOLE PLATE TO RIM/BEAM/BLKG CONNECTIONS MAY BE OMITTED WHERE SHTG IS LAPPED PER DETAIL H/SN.2

- 4. WHERE (2) ROWS OF SCREWS ARE SPECIFIED, PROVIDE DOUBLE I 1/4" WIDE SCL RIM/BLOCK. 3 1/2" SCL AND DOUBLE I 3/4" SCL ARE ACCEPTABLE ALTERNATIVES. DOUBLE RIM/BLOCK SHALL BE CONNECTED W/ (2) ROWS 16d @ 4" OC, STAGGERED.
- 5. AVERAGE SPACING TO BLOCKING IS NOTED. SCREW CONNECTIONS TO BLOCKS SHALL HAVE MIN 3" END DISTANCE AND MIN 3" SPACING. 6. LTP CLIPS MAY BE EITHER LTP4 OR LTP5 INSTALLED IN THE HORIZONTAL
 ORIENTATION, WHERE CLIPS ARE REQUIRED ON EA FACE RIM/BLKG TO BE SAME WIDTH AS WALL UNO. SCREWS (SIMPSON HARDWARE ONLY) ARE TO BE INSTALLED FROM UNDERSIDE OF DOUBLE 2X TOP PLATES INTO BOTT OF RIM/BEAM/BLOCKING.
- 7. CONNECTION MAY BE OMITTED WHERE SHEAR IS LAPPED PER DETAIL H/SN.2, PROVIDE MIN 16d @ 12" OC SOLE PLATE TO RIM. AT DBL-SIDED SHEARWALLS WHERE SHTG IS LAPPED ON ONLY (1) SIDE OF THE WALL IT IS ACCEPTABLE TO ELIMINATE CLIPS ON (1) SIDE OF THE WALL OR DOUBLE THE SPECIFIED NAILING/SCREW SPACING.



398 TYP OF (4) SD 1 COLUMNS

400 SD.1 TO BEAM, TYP

198 SD.1

HSS 4"X4"XI/4"_/ COLUMN, TYP OF (4)

| | GENERAL N |
|-----------------------|---|
| 1. | IT IS THE CONTRACTORS/OWNERS/D TO REVIEW ALL NOTES AND DETAIL AND INCORPORATE IN THE CONSTRU |
| 2. | PRIOR TO BUILDING DEPARTMENT A CONSTRUCTION DOCUMENTS ARE SU SHALL NOT BE USED FOR CONSTRU BIDS PERFORMED BEFORE PERMIT RESPONSIBILITY OF THE CONTRACTO |
| | |
| | ROOF FRAMING |
| 1. 2. 1 PF 2 S C M | REFER TO SECTION 1.6 ON SHEET S FRAMING SPECIFICATIONS. ALL FRA SECTION ARE TYPICAL FOR THE CC PLANS FOR ALTERNATE SPECIFICAT SPECIFIC LOCATIONS. SEE DETAIL P/SN.2 FOR ALLOWABL <u>PICAL ROOF FRAMING:</u> RE-MANUFACTURED ROOF TRUSSES E " OC, TYP. SEE SN.1, SECTION 6.7 F HOP DRAWING REQUIREMENTS. ALL T DNNECTIONS SHALL BE PROVIDED BY ANUFACTURED TO BUY |
| FC | ANUFACTURER. TRUSS TO BUILDING (|
| | SINGLE-PLY NON-GIRDER |
| | (MAX 8' SPAN) L (GREATER THAN 8' SPAN) H SINGLE-PLY GIRDER TWO-PLY GIRDER H THREE-PLY GIRDER |
| | * OR PRESSURE BLOCKING: (4) 16d |



| LENGTH DENOTES SHEARWALL TYPE & MINIMUM LENGTH REQUIRED, REFER TO SHEARWALL SCHEDULE ON THIS SHEET. | |
|--|--|
| WHERE OCCURS, NHR = NO HOLDOWNS REQUIRED | |
| WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE | |
| DENOTES HOLDOWN & POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET. | |
| DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. | |
| DENOTES DETAIL REFERENCE. | |
| REFER TO DENOTED SHEET #. | |
| DENOTES BEARING WALL. | |
| DENOTES 2X PRESSURE TREATED SLEEPER EMBEDDED INTO CONCRETE. PROVIDE (2) 20d AT EACH END AND AT 24" OC, TYP AT DOORS WITH THRESHOLD. | |
| DENOTES PLUMBING FIXTURE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | |
| DENOTES CONTINUOUS EXTERIOR FOOTING, REFER TO FOUNDATION SPECIFICATIONS ON THIS SHEET. | |
| DENOTES CONTINUOUS FOOTING WITH STEMWALL, REFER TO FOUNDATION SPECIFICATIONS ON THIS SHEET. | |
| DENOTES CONTINUOUS INTERIOR FOOTING, REFER | |





SYMBOLS LEGEND













PLACING OF STRANDS AND TENDONS 1. DO NOT ERECT INSIDE FORM OR DOUBLED-UP FORMS UNTIL STRANDS ARE IN PLACE. 2. MARK LOCATIONS OF INDIVIDUAL STRESSING ANCHORAGES AND DRILL I" DIA. HOLE IN

- BULKHEAD PER STRAND LAYOUT ON PLAN. 3. PLACE ANCHOR, POCKET FORMER INTO BULKHEAD AND NAIL ANCHORS TIGHT TO BULKHEAD. 4. LAY ALL THE STRANDS IN ONE DIRECTION, BEGINING AT THE DEAD END, IF THERE IS ONE.
- THEN IN THE OTHER DIRECTION. 5. WHERE DEAD-ENDS OCCUR, NAIL OR TIE APPROXIMATELY 3/4" FROM THE BULKHEAD. CENTERLINE OF THE ANCHORAGES ARE MINIMUM 3 1/2" BELOW TOP OF SLAB.
- 6. SPACING OF STRANDS MAY DEVIATE AS NECESSARY TO AVOID PLUMBING, HARDWARE, ETC. STRAND LOCATIONS AND DIMENSIONS SHOWN ON PLANS ARE FOR PLACING CONVENIENCE AND MAY VARY ± 12". 3" MIN. CLR. REQ'D. FROM PLUMBING, HOLDOWNS, PIPES, AND INSERTS.
- AT STRESSING ENDS, REMOVE SHEATH APPOXIMATELY 6" INSIDE THE BULKHEAD. SLIDE END OF STRAND THROUGH THE HOLE IN THE ANCHOR AND THROUGH THE BULKHEAD.
 STRAIGHTEN STRANDS, CURVING THEM SMOOTHLY AROUND HOLES OR OBSTRUCTIONS.
- PLACE SUPPORTS AT CABLE INTERSECTIONS AND THE STRANDS TOGETHER. IO. D.E. AND S.E. MAY BE REVERSED END TO END.
- II. CHECK STRANDS FOR TEARS IN PLASTIC SHEATH & REWRAP IF TEAR IS LARGER THAN 12" IN LENGTH. CONCEPTTO (REFER TO ACI 318 Tables 4.2.1 & 4.3.1 SHOWN ON THIS GUT
- CONCRETE (REFER TO ACI 318 Tables 4.2.1 & 4.3.1 SHOWN ON THIS SHT. I. CONCRETE TO BE A MINIMUM OF P'C= 3,000 PSI AT 28 DAYS. SEE FINAL SOILS REPORT & 2019 CBC. FOR TYPE, PSI, WATER CEMENT RATIO, ETC., IF MORE RESTRICTIVE. 5" MAXIMUM SLUMP. DESIGN BASED ON PSI & CONSIST OF PORTLAND CEMENT ASTM C-150. WATER TO BE CLEAN AND POTABLE. CORROSIVE ADDITIVES (I.E. CALCIUM CHLORIDE) ARE NOT TO BE USED.
- 2. DEPUTY INSPECTION IS REQUIRED AT POURING OF CONCRETE.
 3. PLACEMENT SHALL BE IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE SPECIFIED.
 SLAB SURFACE SHALL BE CURED WITH HUNTS COMPOUND OR EQUAL APPROVED ASTM 309
 SPECIFICATIONS PRODUCT
- SPECIFICATIONS PRODUCT. 4. CONCRETE SHALL BE UNIFORMLY PLACED AND CONSOLIDATED AROUND ANCHORAGES. <u>NO ROCK POCKETS.</u>
- 5. A MINIMUM OF THREE (3) CYLINDERS PER SLAB SHALL BE TAKEN TO DETERMINE CONCRETE STRENGTH. PREPARATION FOR STRESSING
- I. CHECK INSIDE EACH POCKET HOLE, MAKING SURE THAT THE EXPOSED PORTION OF THE ANCHORAGE IS CLEAR. IF A FILM OF CEMENT PASTE HAS INTRUDED, REMOVE IT COMPLETELY. 2. MARK ON THE STRAND AT A CONSTANT DIMENSION FROM THE EDGE OF SLAB.
- TRESSING PROCEDURE I. THE STRESSING OPERATION SHALL NOT COMMENCE UNTIL CONCRETE TEST CYLINDERS, CURED UNDER JOBGITE CONDITIONS, HAVE BEEN TESTED AND INDICATE THAT THE CONCRETE HAS ATTAINED 2000 PSI MINIMUM.
- 2. THE STRESSING OPERATION SHALL BE CONDUCTED BY A POST-TENSION EXPERIENCED EMPLOYEE IN THIS TYPE OF WORK. HE/SHE MUST EXERCISE CLOSE CHECKING AND RIGID CONTROL OF ALL WORKING OPERATIONS.
- 3. ALL PRESTRESSING SHALL BE BY MEANS OF HYDRAULIC JACKS OR EQUAL, EQUIPPED WITH ACCURATE READING AND CALIBRATED HYDRAULIC PRESSURE GAUGES.
- 4. THE DEPUTY INSPECTOR SHALL RECORD ALL JACKING FORCES AND ELONGATIONS AND SUBMIT REPORTS TO THE ENGINEER FOR THE STRUCTURAL ENGINEERS APPROVAL.
- 5. STRANDS THAT ARE STRESSED FROM BOTH ENDS NEED NOT BE STRESSED SIMUL-TANEOUSLY. ELONGATION FROM BOTH ENDS MUST TOTAL THE ELONGATION SHOWN ON PLANS.
- 6. TAKE SAFETY PRECAUTIONS NECESSARY. DO NOT PERMIT WORKMEN TO STAND BEHIND OVER, OR IN LINE WITH RAM AND STRANDS DURING STRESSING OF STRANDS.
- <u>SEALING STRESSING HOLES</u> I. AFTER STRESSING AND APPROVAL, SAWGUT OR BURN EXCESS STRAND.
- 2. WHEN EXCESS IS BURNED COAT OR PAINT EXPOSED ANCHORAGE, GRIPPERS AND STUB OF STRAND WITH RUST-O-LEUM' PRIMER OR EQUAL. IF SAWCUT PLACE PLASTIC CAP • END OF STRAND-NO PAINTING REQUIRED.
- 3. AFTER ANCHORS HAVE BEEN COATED OR CAPPED, THE CONCRETE CONTRACTOR SHALL DRY PACK POCKET HOLES WITHIN TEN (10) DAYS. A NON-METALLIC, NON-SHRINK GROUT MIX SHALL BE USED FOR THIS PURPOSE.
- POST-TENSIONING SUPPLIER QUALIFICATIONS: POST-TENSIONING PRODUCTS SHALL BE SUPPLIED BY A PTI CERTIFIED PLANT.
- TECHNICAL NOTES DEFORMED MILL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 (#3 & #4) GRADE 60 (#5 & UP
- STEEL SHALL CONFORM TO ASTM A-615
 GRADE 60 (#5 & UP)

 STRANDS SHALL CONFORM TO ASTM A-416

 PROPERTIES OF 7-WIRE STRAND 1/2"\$ (DIA.)

 P (ULTIMATE)
 2TO ksi

 AREA (SQ. IN.)
 .153

 F (ULTIMATE in pounds)
 41300 lbs
- E (psi) 29,000,000+/-SHEATHING SHALL BE NO LESS THAN 40 MIL THICKNESS AND EXTRUDED IN A PTI CERTIFIED PLANT.
- IN A PTI CERTIFIED PLANT. <u>GENERAL NOTES</u>
- I. INFORMATION REGARDING TYPE, SIZE, AND LOCATION OF SHEAR WALLS, EMBEDS, AND HOLD-DOWN DEVICES ARE SHOWN ON THIS POST-TENSIONED FOUNDATION DRAWING FOR THE CONVENIENCE AND CLARITY OF THE CONSTRUCTION PROCESS. THIS INFORMATION IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD IN THE STRUCTURAL DRAWINGS AND IT IS THE RESPONSIBILITY OF THE BUILDER/ CONTRACTOR TO COORDINATE THIS INFORMATION WITH THE STRUCTURAL DRAWINGS. SHOULD DISCREPANCIES EXIST, THE STRUCTURAL DRAWINGS SHALL GOVERN. WADDELL & ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY
- OF THE SHEAR WALL, EMBED, AND HOLD-DOWN INFORMATION SHOWN ON THIS FOUNDATION DRAWING. 2. SILL ANCHORAGES PER ARCHITECTURAL PLANS. THICKEN SLAB AS REQUIRED FOR PROPER CONCRETE COVERAGE AT ANCHOR BOLTS AS REQUIRED PER 2019 CBC., WHERE THEY OCCUR.
- UNLESS NOTED OTHERWISE, STOOPS, PORCHES, OR OTHER ATTACHMENTS SHALL BE CAST INDEPENDENT OF THE POST TENSIONING SLAB.
 DRAINAGE: ALL SURFACE WATER MUST DRAIN AWAY FROM SLAB AND NO PONDING SHALL BE ALLOWED NEXT TO FOUNDATION.
- 5. THE SOILS UNDER SLAB SHALL BE PRE-SATURATED PER THE SOILS REPORT RECOMMENDATIONS:
- PRIOR TO CONCRETE PLACEMENT, SOILS ENGINEER SHALL VERIFY AND APPROVE IN WRITING. 6. SEE I/PTD. 7. POST-TENSIONING SHOP DRAWINGS ARE ONLY FOR STRAND PLACEMENT AND STRESSING DETAILS, AND ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND STRUCTURAL DRAWING OF RECORD
- DRAWINGS OF RECORD. 8. FOUNDATION DIMENSIONS ARE EXTRACTED FROM ARCHITECTURAL DRAWINGS, WADDELL & ASSOCIATES HAS NOT ASSUMED ANY LIABILITY WITH RESPECT TO THESE DIMENSIONS. CONTRACTOR SHALL VERIFY ALL FOUNDATION DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND WITH FIELD CONDITIONS. CONTRACTOR SHALL VERIFY THE LOCATION AND SIZES OF ALL
- ANCHOR BOLTS, HOLDOWNS, EMBEDDED STRAPS AND FRAMING MATERIALS. CONTRACTOR SHALL VERIFY CONFIGURATION AND LOCATION OF ALL ARCHITECTURAL FEATURES, SUCH AS BUT NOT LIMITED TO DEPRESSIONS, SLOPES, SHELVES, PATIOS, PORCHES, AND STOOPS. 9. COORDINATE ALL DETAILS WITH ALL TRADES PRIOR TO STARTING CONSTRUCTION. 10. OBTAIN APPROVAL OF MINIMUM FOUNDATION DIMENSIONS FROM SOILS ENGINEER PRIOR TO CONSTRUCTION. 11. AN UNDERLAYMENT OR SLIP SURFACE SHALL BE APPLIED ON THE POST-TENSIONED
- 11. AN UNDERLATMENT OR SLIP SURFACE SHALL BE APPLIED ON THE POST-TENSIONED SLAB ON AREAS WHERE HARD SURFACE FLOORING MATERIALS ARE TO BE USED. 12. POINT LOADS & LINE LOADS WERE PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE POST TENSION DESIGN. 13. ZIP STRIP OR HAND TOOL JOINT PER CONTRACTOR.
- RESTRICTIVE NOTICE THESE DRAWINGS ARE THE PROPERTY OF <u>MADDELL & ASSOCIATES</u> AND ARE TO BE USED EXCLUSIVELY BY <u>A PTI CERTIFIED PLANT</u> FOR THE SUPPLY AND INSTALLATION OF THE POST-TENSIONING SYSTEM FOR THIS PROJECT. ANY RECIPIENT OF THESE DRAWINGS SHOULD IMMEDIATELY RETURN THEM TO <u>MADDELL & ASSOCIATES</u> IN THE EVENT THE RECIPIENT DOES NOT INTEND TO COMPLY WITH THE ABOVE.
- THE ENGINEERS STAMP PLACED HERE IS FOR THE DESIGN OF THE POST-TENSION FOUNDATION SYSTEM ONLY. SEE STRUCTURAL ENGINEERS DRAWINGS FOR COMPLETE DESIGN & SEE SOILS ENGINEER REPORT FOR SPECIAL CONDITIONS.





| HOLDOWN SCHEDULE | | | | | | | |
|--|------------------------------|--------------------------------|---------------------------------|--------------------|---------------|--|--|
| TYPE | SIMPSON ^I TYPE | MIN ² HD POST | HD TO POST CONNECTION | ANCHOR DIAMETER | BESIGN LOAD | | |
| ्ये | HDU4 | 4X | (10) SDS 1/4X2 1/2 SCREWS | 5/8" | 5.0K | | |
| < P | HDU8 | 4X | (20) SDS | | | | |
| $\langle \vec{b} \rangle$ | HDU8 | 4X6 <i>O</i> R 6X6 | SCREWS | 7/8" | 8.0K | | |
| < <u>v</u> | HDU14 | 4X8 <i>O</i> R 6X6 | (36) SDS 1/4X2 1/2 SCREWS | 1" | 15.0K 120 | | |
| I. SEE | DETAIL CC/ | SN.3 FC | OR TYPICAL H | OLDOWN INST | ALLATION. | | |
| 2. HOLDOWN POSTS TO MATCH WALL DEPTH. WHERE 4X6 & 6X6 OPTION IS GIVEN, INSTALL 4X6 IN A 4" WALL, 6X6 IN A 6" WALL. | | | | | | | |
| 3. UPL | IFT CAN BE | APPLIE | D IN UPWARD | OR DOWNWA | RD DIRECTION. | | |





STANDARD NOTES AND SPECIFICATIONS

3.7 CALGREEN CODE MANDATORY MEASURES REQUIREMENTS

SECTION 5.410 BUILDING MAINTENANCE AND OPERATION

5.410.2 COMMISSIONING. [N] NEW BUILDINGS 10,000 SQUARE FEET AND OVER. FOR NEW BUILDINGS 10,000 SQUARE FEET AND 5.410.2 COMMISSIONING. INJ NEW BUILDINGS 10,000 SQUARE FEET AND OVER. FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY. FOR I-OCCUPANCIES THAT ARE NOT REGULATED BY OSHPD OR FOR I-OCCUPANCIES AND L-OCCUPANCIES THAT ARE NOT REGULATED BY THE CALIFORNIA ENERGY CODE SECTION 100.0 SCOPE, ALL REQUIREMENTS IN SECTIONS 5.410.2 THROUGH 5.410.2.6 SHALL APPLY. NOTE: FOR ENERGY-RELATED SYSTEMS UNDER THE SCOPE (SECTION 100) OF THE CALIFORNIA ENERGY CODE, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEMS AND CONTROLS, INDOOR LIGHTEN UPACTION 100.8 FOR AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO CALIFORNIA ENERGY CODE SECTION 120.8 FOR COMMISSIONING REQUIREMENTS

5.410.4 TESTING AND ADJUSTING. NEW BUILDINGS LESS THAN 10,000 SQUARE FEET. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETI AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.11992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. 5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE

THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. 5 504 5.3 FILTERS, IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. EXCEPTION: EXISTING MECHANICAL EQUIPMEN 5.504.5.3.1 LABELING. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV

SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES, SEE SECTION 5.407.2 OF THIS CODE.

SECTION 5.506 AIR QUALITY AND EXHAUST 5.506.1 OUTDOOR AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION I, CHAPTER 4 OF CCR, TITLE 8 5.506.2 CARBON DIOXIDE (CO) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE, SECTION 120.1(C)(4).

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 OZONE DEPLETION AND GLOBAL WARMING REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. 5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT

CONTAIN CFCS. 5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

2.6 THERMOSTATS

- THERMOSTAT TO COMPLY WITH SOLAR READY ZONE EXCEPTION. 2. CONSTRUCTION REQUIREMENTS:

3.1 SUPPLY AND RETURN GRILLES

- I. GENERAL REQUIREMENTS:
- I.I. EXHAUST GRILLES, WHERE USED, SHALL BE TITUS #50 OR EQUAL.
- MANUFACTURER'S DATA FOR SIZING.
- 2. CONSTRUCTION REQUIREMENTS:
- 3. ALTERNATES & MODIFICATIONS: 3.1. ALTERNATE LOCATIONS

3.2 INTAKE DUCTS

- 1. GENERAL REQUIREMENTS:
- 2. MATERIALS: 2.1. 26 GA HARD PIPE TO ROOF JACK.
- 3. CONSTRUCTION REQUIREMENTS: 3.1. FRESH AIR INTAKE DUCT TO MAINTAIN MIN 10'-0" CLEARANCE FROM ANY EXHAUST OR WASTE VENT.

3.3 VENTILATION AND EXHAUST DUCTS

- WHOLE BUILDING VENTILATION 2. BUILDING VENTILATION PER LOCAL EXHAUST REQUIREMENTS.
- EXHAUST DUCTS
- SURFACES. ALL DUCTS SHALL BE
- BATHROOM
- AND BE ENERGY STAR RATED

3.4 SUPPLY AND RETURN DUCTS

- I. ALL DUCTWORK SHALL BE HARD DUCT.
- AND CMC CHAPTER 6

- AND CMC CHAPTER 6

3.5 NONRESIDENTIAL PROJECT GENERAL REQUIREMENTS

START-UP REQUIREMENTS START-UP

TESTING AND BALANCING (TAB) I. ALL INSTALLED HVAC SYSTEMS WILL REQUIRE SYSTEMS TESTING AND BALANCING. TAB SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, AGENT OF CONTRACTOR, BALANCING COMPANY, MANUFACTURE, OR MANUFACTURE'S REPRESENTATIVE. ALL TAB WORK SHALL BE PERFORMED BY INDIVIDUALS EXPERIENCED AND CAPABLE OF PERFORMING REQUIRED WORK SCOPE AND HAVE APPLICABLE LICENSES, CREDENTIALS, OR TRAINING WHEN REQUIRED. SYSTEMS SHALL BE TESTED AND BALANCED PER T24 REQUIREMENTS AND GREEN CODE SECTIONS 5.410.4 SYSTEM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS AND APPLICABLE

STANDARDS ON EACH SYSTEMS PER GREEN CODE 5.410.4.3 4. HVAC BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES FROM TESTING ADJUSTING AND BALANCING

BUREAU NATIONAL STANDARDS, THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROTOCOL STANDARDS, ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY ENFORCING AGENCY PER GREEN CODE 5. PROVIDE A FINAL REPORT OF TESTING RESULTS AFTER COMPLETION OF TESTING, ADJUSTING, AND BALANCING PER GREEN CODE 5.410.4.4 6. Provide A COPY OF ALL INSPECTIONS VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY PER GREEN

CODE 5.410.4.5.1

CONSTRUCTION NOTES

INDOOR MOISTURE CONTROL AND INDOOR AIR QUALITY I. HVAC SYSTEMS SHALL PROVIDE MINIMUM EXHAUST OR VENTILATION REQUIRED TO MEET T24 INDOOR MOISTURE 2. HVAC SYSTEMS SHALL PROVIDE MINIMUM OUTSIDE VENTILATION AIR AS NEEDED TO MEET T24 VENTILATION 3. FOR BUILDING THAT HAVE CARBON DIOXIDE MONITORING (CO2) FOR DEMAND CONTROL VENTILATION, SENSORS AND CONTROLS SHALL BE PROVIDED AND INSTALLED FOR A FULLY FUNCTIONAL SYSTEMS MEETING THE T24 VENTILATION REQUIREMENTS. 4. PROVIDE MINIMUM MERV 13 FILTERS FOR ALL OUTSIDE AIR AND RETURN AIR. FILTERS TO BE CLEARLY LABELED WITH

- FILTRATION RATINGS

BASIS OF DESIGN

- HE PROJECTS BASIS OF DESIGN
- COMMISSIONING REQUIREMENTS
- 2. DESIGN PHASE REVIEW
- ECTION 10-103(A)1
- 2.3.

I. GENERAL REQUIREMENTS: 1.1. THERMOSTATS SHALL BE PROGRAMMABLE SET BACK TYPE AND HAVE THE CAPABILITY OF TERMINATING COOLING AT 75° F AND HEATING AT 70° F. THERMOSTATS SHALL HAVE AN ADJUSTABLE RANGE UP TO 10° F. 1.2. UNLESS INDICATED OTHERWISE, PULL MIN THREE WIRES BETWEEN THERMOSTAT AND CONDENSER TO ALLOW FOR FUTURE CHANGES. FOR BEST RESULTS, CENTRALLY LOCATE THERMOSTAT IN ZONE, NOT NEAR OPERABLE WINDOW OPENINGS. 1.3. WHERE SOLAR PANELS ARE NOT INSTALLED AND SOLAR READY ZONE IS NOT PROVIDED, INSTALL DEMAND RESPONSE

2.1. MOUNT THERMOSTAT BETWEEN 4'-6" - 5'-0" (4'-0" AT ACCESSIBLE DWELLINGS) ABOVE FINISH FLOOR HEIGHT, ALIGNED OVER LIGHT SWITCHES, UNO ON ARCHITECTURAL PLANS. 2.2. AT BUILDER OPTION, THERMOSTAT MAY BE RELOCATED WITHIN THE ZONE IT CONTROLS.

SUPPLY, RETURN, & TRANSFER GRILLES SHALL BE OF THE SIZE, LOCATION, TYPE, AND BLOW PATTERN INDICATED ON PLAN.

1.2. WHERE STAMPED FACE RETURNS ARE USED IN PLACE OF RETURN AIR GRILLE SPECIFIED, THE CONTRACTOR SHALL INSTALL A LARGER SIZE OR ADDITIONAL GRILLES TO MAINTAIN AN EQUIVALENT CORE EFFECTIVE AREA, REFER TO

1.3. ALTERNATE MANUFACTURER'S PRODUCTS MAY BE USED. CONTRACTOR SHALL SELECT SUPPLY GRILLE ALTERNATES BASED UPON MAX PRESSURE DROP OF 0.04" WATER COLUMN AT DEVICE AND MAX FACE VELOCITY OF 700 FEET PER MINUTE. ALL PRODUCTS SHALL BE PERFORMANCE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70. 2.1. LOCATE SUPPLY & RETURN AIR GRILLES MIN 3'-0" FROM SMOKE/CO DETECTOR, TYPICAL AT ALL LOCATIONS. COORDINATE SMOKE/CO DETECTOR ADJUSTMENTS WITH ARCHITECT/ELECTRICAL ENGINEER PRIOR TO CONSTRUCTION.

3.1.1. LOCATION OF GRILLES ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED TO MAINTAIN REQUIRED

CLEARANCES, PROVIDED DUCT LENGTH IS NOT INCREASED BY MORE THAN 10%. CONTRACTOR SHALL VERIFY THAT ADJUSTED LOCATION DOES NOT NEGATIVELY IMPACT AIRFLOW. 3.1.2. ADJUSTED LOCATIONS TO BE APPROVED BY BUILDER FOR AESTETHIC PURPOSES

1.1. ELECTRICAL CONTRACTOR WILL FURNISH A SEPARATE DISCONNECT SWITCHING DEVICE AND INSTALL ALL COMPONENTS FOR THIS IN THE SAME LOCATION AS THE WHOLE BUILDING VENTILATION SYSTEM.

2.2. PROVIDE INTAKE DAMPER & SCREEN OPENING PER SECTION 3.3. 2.3. PROVIDE BACKDRAFT DAMPER AT INTAKE DUCT WHERE CONNECTED TO SUPPLY/RETURN DUCT. DAMPER TO BE INSTALLED BETWEEN INTAKE FAN AND SUPPLY/RETURN DUCT OR BE INTEGRATED INTO FAN SYSTEM

1. WHOLE BUILDING VENTILATION MUST BE PROVIDED PER ASHRAE 62.1.

3. WHERE OCCURS OR AT BUILDERS REQUEST, TRANSFER GRILLE MAY BE REPLACED WITH IDENTICAL SIZED JUMPER DUCT IN CEILING TO ELIMINATE CONFLICTS WITH DOOR HEIGHTS, MOLDINGS, CEILING TREATMENTS, ETC

I. EXHAUST DUCTS SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEET METAL DUCT WITH SMOOTH INTERIOR CONSTRUCTED PER CMC CHAPTER 6.

1. LOCAL EXHAUST VENTILATION FOR BATHROOMS MUST BE AS SCHEDULED ON THE DRAWINGS, FOR A BATH FAN EITHER THROUGH ONSITE TESTING OR USING THEIR CERTIFIED RATED FLOW AT 0.25" WATER COLUMN. 2. BATH FANS MUST BE RATED AT 3.0 SONES OR LESS (OR BE REPLACED BY A PICKUP GRILLE FOR A REMOTE FAN)

2. WHERE SUPPLY AIR DUCTS AND PLENUMS THAT ARE DESIGNED TO OPERATE AT STATIC PRESSURES 25"+/- WATER COLUMN ARE LOCATED OUTSIDE OF CONDITIONED SPACE OR IN RETURN PLENUMS, THEIR JOINTS SHALL BE SEALED IN ACCORDANCE WITH CLASS C, AS DEFINED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE

3. INSULATE ALL UNLINED INTERIOR SUPPLY AND RETURN DUCTWORK WITH FIBERGLASS INSULATION. SEAL ALL JOINTS PRIOR TO INSULATING. SEE TITLE 24 ENERGY DOCUMENTS FOR INSULATION REQUIREMENTS. 4. ENSURE THAT FLEXIBLE DUCTS ARE TO MAINTAIN A MAXIMUM LENGTH OF 5' AND A MINIMUM RADIUS AT THE CENTERLINE OF THE DUCT, MINIMUM IX THE DIAMETER OF THE DUCT TURN OR PROVIDE SHEET METAL ELBOWS AS

5. ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

6. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50. 7. DUCT LINING MATERIALS SHALL HAVE A MOLD, HUMIDITY AND EROSION RESISTANT SURFACE THAT MEETS THE

8. BALANCE AIR FLOW TO ALL AIR INLETS AND OUTLETS TO AIR QUANTITIES SHOWN ON FLOOR PLAN. 9. INITIAL FILTER PRESSURE DROP SHALL NOT EXCEED 0.1 WATER COLUMN WITH THE USE OF A MINIMUM MERV 8 FILTER. 10. DUCT OPENINGS AND ALL OTHERS RELEASED AIR DISTRIBUTION COMPONENT OPENINGS TO BE COVERED WITH TAPE, PLASTIC, OR OTHER METHODS UNTIL FINAL STARTUP HVAC EQUIPMENT.

II. MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS ARE REQUIRED FOR COMFORT BALANCING. 12. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE & ADJUSTABLE VOLUME DAMPERS (SHOWN OR NOT) AS REQUIRED TO BALANCE THE SYSTEMS AND MAINTAIN A NOISE CRITERIA LEVEL NOT TO EXCEED 25-35.

13. SEE ARCHITECTURAL PLANS AND ACOUSTICAL REPORT (WHERE OCCURS) FOR ACOUSTICAL REQUIREMENTS. 14. RETURN DUCT LENGTH SHALL NOT EXCEED 30 FEET AND SHALL CONTAIN NO MORE THAN 180 DEGREES OF BEND. IF THE TOTAL BENDING EXCEEDS 90 DEGREES, ONE BEND SHALL BE A METAL ELBOW. 15. FABRICATE AND INSTALL DUCTWORK IN ACCORDANCE WITH THE LATEST EDITION OF ASHRAE GUIDE, SMACNA MANUALS 16. ALL FACTORY MADE DUCTWORK TO BE CLASS I PER CMC 602.6

I. ALL MAJOR EQUIPMENT START-UP SHALL BE PERFORMED BY EQUIPMENT MANUFACTURE, THEIR REPRESENTATIVE, OR FACTORY TRAINED INSTALLERS. ALL OTHERS MUST GET PRIOR AUTHORIZATION BEFORE PERFORMING EQUIPMENT

OPERATION AND MAINTENANCE (O&M) MANUAL

1. PROVIDE BUILDING OWNER DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OR WARRANTIES FOR EACH SYSTEM PER GREEN CODE 5.410.4.5.

THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF SPACE CONDITIONING IS NECESSARY AND WITH REQUIRED AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY AFTER CONSTRUCTION PER GREEN CODE 5.504.1 COVER AND PROTECT DUCT OPENINGS AND MECHANICAL EQUIPMENT DURING CONSTRUCTIONS PER GREEN CODE 5.504.3 INSTALLATION OF HVAC OR REFRIGERATION EQUIPMENT SHALL COMPLY WITH THE OZONE DEPLETION AND GREEN HOUSE CASE DEDUCTIONS DECUMPENTING FOR TOTAL GAS REDUCTIONS REQUIREMENTS PER T24. 3.1. DO NOT INSTALL HVAC OR REFRIGERATION EQUIPMENT THAT CONTAIN CHLOROFLUOROCARBONS (CFC) OR HALONS.

3.6 PROJECT BASIS OF DESIGN AND COMMISSIONING

I. THESE PROJECT DOCUMENTS INCLUDING THE SMEP-T24, CALCULATION PACKAGES AND REPORTS SHALL BE CONSIDERED 2. EQUIPMENT AND COMPONENTS INCLUDED IN THESE DRAWINGS HAVE BEEN SELECTED BASED ON PERFORMANCE, RELIABILITY AND PROJECT SUITABILITY. 3. THESE DOCUMENTS REPRESENT THE HVAC DESIGN INTENT THAT THE CONTRACTOR IS EXPECTED TO BUILD, INSTALL, AND PROVIDE THE FUNCTIONING HVAC SYSTEMS AS DESCRIBED IN THESE DOCUMENTS.

I. NONRESIDENTIAL BUILDING WITH LESS THAN 10,000 SF OF CONDITIONED SPACE SHALL COMPLY WITH THE APPLICABLE COMMISSIONING REQUIREMENTS BELOW PER T24 ENERGY CODE.

DESIGN REVIEWER REQUIREMENTS. THE DESIGN REVIEWER SHALL BE THE SIGNER OF THE DESIGN REVIEW KICKOFF CERTIFICATE OF COMPLIANCE AND CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST AS SPECIFIED IN PART I 2.2. DESIGN REVIEW KICKOFF. DURING THE SCHEMATIC DESIGN PHASE OF THE BUILDING PROJECT, THE OWNER REPRESENTATIVE, DESIGN TEAM AND DESIGN REVIEWER MUST MEET TO DISCUSS THE PROJECT SCOPE, SCHEDULE AND HOW THE DESIGN REVIEWER WILL COORDINATE WITH THE PROJECT TEAM. THE BUILDING OWNER OR OWNER'S EPRESENTATIVE SHALL INCLUDE THE DESIGN REVIEW KICKOFF CERTIFICATE OF COMPLIANCE FORM IN THE ERTIFICATE OF COMPLIANCE DOCUMENTATION AS SPECIFIED IN PART I SECTION 10-103. CERTIFICATE OF CONFILIANCE DOCUMENTATION AS SPECIFIED IN PART I SECTION IDENS. CONSTRUCTION DOCUMENTS DESIGN REVIEW. THE CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST CERTIFICATE OF COMPLIANCE SHALL LIST THE ITEMS CHECKED BY THE DESIGN REVIEWER DURING THE CONSTRUCTION DOCUMENT REVIEW. THE COMPLETED FORM SHALL BE RETURNED TO THE OWNER AND DESIGN TEAM FOR REVIEW AND SIGN-OFF. THE BUILDING OWNER OR OWNER'S REPRESENTATIVE SHALL INCLUDE THIS FORM IN THE CERTIFICATE OF COMPLIANCE DOCUMENTATION AS SPECIFIED IN PART I SECTION 10-103. 3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS. COMPLETE DESCRIPTIONS OF ALL MEASURES OR

REQUIREMENTS NECESSARY FOR COMMISSIONING SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS (PLANS AND SPECIFICATIONS). COMMISSIONING MEASURES OR REQUIREMENTS SHALL BE CLEAR, DETAILED AND COMPLETE TO CLARIFY THE COMMISSIONING PROCESS.

1.1 DESIGN CRITERIA

- I. GENERAL PROJECT INFORMATION: I.I. PROJECT SHALL CONFORM TO THE 2022 CMG ITS REFERENCED STANDARDS, AND APPLICABLE LOCAL BUILDING DEPARTMENT STANDARDS. DESIGN CRITERIA ARE AS FOLLOWS:
- DESIGN VALUES DESIGN TEMPERATURES HEATING INDOOR DRY BULB 68° F UTDOOR DRY BULB

1.2 GENERAL NOTES

1. SCOPE:

- I.I. THE PROJECT DOCUMENTS MAY NOT BE USED IN A LOCATION OTHER THAN THAT DESIGNATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. 1.2. THIS IS A "BUILDER'S SET" PRODUCED SOLELY FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR. 1.3. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY. THEY ARE NOT EXTENSIVELY DETAILED NOR ARE COMPLETE SPECIFICATIONS PROVIDED. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEWHERE WITHIN THE PLAN SET. FOR ITEMS, METHODS AND/OR MATERIALS NOT SPECIFIED WITHIN THE SET, THE MIN REQUIREMENT OF THE APPLICABLE CODE SHALL GOVERN.
- BEYOND THE AFOREMENTIONED LIMITED INFORMATION OF THESE PLANS. 2. CONTRACTOR REQUIREMENTS:
- 2.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS. 2.2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC.
- 2.3. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL.
- 2.4. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT, UNTIL CONFLICT IS RESOLVED BY THE AFFECTED PARTIES.
- 2.5. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE MECHANICAL ENGINEER. 2.6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OR ARCHITECT FOR ANY REQUIRED DIMENSIONS NOT SHOWN. DRAWINGS & DETAILS WITHIN THIS SET SHALL NOT BE SCALED FOR ANY PURPOSE. THE GENERAL CONTRACTOR AND ITS SUB-CONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS
- TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS THAT ARE SUBMITTED TO THE ENGINEER OF RECORD FOR ITS REVIEW DO NOT CONSTITUTE "IN WRITING". CHANGES TO THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS BECOME THE RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES. 2.8. THE HERS RATER AND THE CONTRACTOR SHALL SUBMIT ALL THE REQUIRED AND CURRENTLY APPROVED FORMS TO THE REQUIRED PARTIES AFTER TESTING OR INSTALLATION. A REGISTERED COPY OF REQUIRED FORMS SHALL BE SUBMITTED PRIOR TO THE FINAL INSPECTION, SIGNED BY THE CERTIFIED INSTALLER AND THE HERS RATER FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING AS REQUIRED.
- 2.9. ALL HIGH VOLTAGE POWER WIRING, DISCONNECTS, AND CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE CONTROL WIRING FOR HVAC EQUIPMENT TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. 2.10. MECHANICAL INSTALLERS MUST BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS
- INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED PROGRAM OR UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. SEE CALGREEN 702.1 FOR ACCEPTABLE TRAINING PROGRAMS.

1.3 TYPICAL ABBREVIATIONS

| A/A | ATTIC ACCESS | CU | CONDENSING UNIT | (N) | NEW |
|-------------|--------------------------------|-------|-----------------------------|-------------|---------|
| ABV | ABOVE | DIA | DIAMETER | NFTA | NATIONA |
| ACCA | AIR CONDITIONING CONTRACTORS | DBL | DOUBLE | | ASSOCIA |
| | OF AMERICA | DN | DOWN | NTS | ΝΟΤ ΤΟ |
| \FF | ABOVE FINISHED FLOOR | (E) | EXISTING | ОС | ON CEN |
| AFUE | ANNUAL FUEL UTILIZATION | EA | EACH | <i>O</i> SA | OUTSIDE |
| | EFFICIENCY | EER | ENERGY EFFICIENCY RATIO | PBD | PARALL |
| AHRI | AIR CONDITIONING, HEATING, AND | EF | EXHAUST FAN | PERP | PERPEN |
| | REFRIGERATION INSTITUTE | ELEV | ELEVATION | PL | PLATE |
| AIRFLOW | AIR FLOW | ERV | ENERGY RECOVERY VENTILATOR | POC | POINT C |
| 4LT | ALTERNATE | EQ | EQUAL | PSI | POUNDS |
| ANSI | AMERICAN NATIONAL | f | CFM's | REQ'D | REQUIRE |
| | STANDARDS INSTITUTE | F | FAHRENHEIT | SAD | SEE AR |
| ASTM | AMERICAN SOCIETY FOR | FAU | FORCED AIR UNIT | SEER | SEASON |
| | TESTING AND MATERIALS | F/L | FAN/LIGHT COMBINATION | | RATING |
| BLKG | BLOCKING | GΑ | GAUGE | SMACNA | SHEET I |
| BLW | BELOW | GALV | GALVANIZED | | CONDITI |
| BTU | BRITISH THERMAL UNIT | HOOD | KITCHEN HOOD VENT | | NATIONA |
| BTU/H | BTU PER HOUR | HORIZ | HORIZONTAL | SOV | SHUT O |
| CALGREEN | CALIFORNIA GREEN BUILDING | HRV | HEAT RECOVERY VENTILATOR | SQ FT | SQUARE |
| | STANDARDS | HSPF | HEATING SEASONAL | STD | STANDA |
| CBC | CALIFORNIA BUILDING CODE | | PERFORMANCE FACTOR | T¢B | TOP ∉ E |
| CEC | CALIFORNIA ELECTRICAL CODE | HVAC | HEATING, VENTILATION, AND | TYP | TYPICAL |
| CFH | CUBIC FEET PER HOUR | | AIR CONDITIONING | UNO | UNLESS |
| FM | CUBIC FEET PER MINUTE | IAQ | INDOOR AIR QUALITY | V | VENT |
| L | CENTERLINE | IBC | INTERNATIONAL BUILDING CODE | VERT | VERTICA |
| CLR | CLEAR | ICC | INTERNATIONAL CODE COUNCIL | V(R) | VENT R |
| CMC | CALIFORNIA MECHANICAL CODE | MFR | MANUFACTURER | VTR | VENT T |
| CONT | CONTINUOUS | MAX | MAXIMUM | VTW | VENT T |
| CPC | CALIFORNIA PLUMBING CODE | MIN | MINIMUM | WBV | WHOLE I |
| CRC | CALIFORNIA RESIDENTIAL CODE | MSD | MULTI-SHUTTER DAMPER | WН | WATER |
| | | | | # | POUND |

2.2 HEAT PUMP UNITS

1. OUTDOOR UNIT GENERAL REQUIREMENTS I.I. WATERPROOF GFI EQUIPMENT OUTLET REQUIRED WITHIN 25'-0" MAX DISTANCE FROM UNIT. 1.2. PROVIDE EQUIPMENT DISCONNECT PER CEC SECTION 440.11. MOUNT TO WALL OR FREESTANDING MOUNTING SUPPORT, (UNISTRUT PIOOD OR EQUAL). MOUNTING HEIGHT TO BE BETWEEN 1'-6" AND 4'-0" ABOVE FINISH FLOOR.

- 2. OUTDOOR UNIT CONSTRUCTION REQUIREMENTS: 2.1. REFRIGERANT PIPING LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL
- BE PROTECTED FROM UNAUTHORIZED ACCESS BY A MEANS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION PER CMC SECTION 1105.11
- 2.2. THE SUCTION REFRIGERANT LINE FROM THE INDOOR COIL TO THE OUTDOOR UNIT SHALL BE INSULATED WITH MIN R6 INSULATION. INSULATION USED FOR REFRIGERANT SUCTION LINES SHALL BE WATER RETARDANT AND PROTECTED FROM PHYSICAL DAMAGE AND UV DETERIORATION.
- 2.3. PROVIDE PIPING SLEEVE FOR REFRIGERANT PIPING THAT RUNS BELOW GRADE OR THROUGH CONCRETE FLOOR. SLEEVE TO HAVE MIN 1/2" CLEARANCE AROUND PIPE INSULATION. 2.4. AN EQUIPMENT PAD SHALL BE PROVIDED FOR GRADE MOUNTED EQUIPMENT MIN 6" WIDER THAN THE OUTDOOR UNIT IN ALL DIRECTIONS, 4" THICK AND MIN 3" ABOVE ADJACENT GRADE. REFER TO MANUFACTURER'S REQUIREMENTS FOR
- CLEARANCES. 2.5. WHERE PIPING RUNS VERTICALLY THROUGH WALL, BORE/NOTCH TOP PLATES PER STRUCTURAL PLANS.
- 2.6. REFRIGERANT PIPING TO BE SECURLY FASTENED TO FRAMING WITHIN 6'-0" OF FIRST BEND FROM OUTDOOR UNIT, WITHIN 2'-0" OF EACH SUBSEQUENT BEND, AND AT POINTS NO MORE THAN 15'-0" APART. SEE DETAIL H/MN.2. 3. OUTDOOR UNIT ALTERNATES & MODIFICATIONS: 3.1. ALTERNATE LOCATIONS
- 3.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE, VERIFY EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM. 3.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE, MAINTENANCE AREA, \$ LOT LINE SETBACKS PRIOR TO RELOCATING.
- 4. INDOOR HEAT PUMP UNIT GENERAL REQUIREMENTS: 4.1. PROVIDE MIN 22"X30" ACCESS LARGE ENOUGH TO ACCOMMODATE THE REMOVAL OF THE LARGEST COMPONENT OF HEAT PUMP, LOCATE ACCESS MAX 20'-0" FROM FAU UNLESS PASSAGEWAY HEIGHT IS OVER 6'-0". PROVIDE CONTINUOUS SOLID FLOORING NOT LESS THAN 24" WIDE FROM ACCESS TO UNIT.
- 4.2. PROVIDE A LEVEL WORKING PLATFORM MIN 30" IN DEPTH, WIDTH, AND HEIGHT ALONG SERVICE SIDE OF UNIT FOR MAINTENANCE.
- 4.3. DUCTS AND PLENUMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED IN ACCORDANCE WITH: T24, CMC, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 4.4. PROVIDE A PERMANENT 110V ELECTRICAL OUTLET AND LIGHTING FIXTURE AT OR NEAR UNIT. LIGHTING FIXTURE SHALL BE CONTROLLED BY SWITCH. SWITCH TO BE LOCATED AT ACCESS POINT WHEN UNIT IS INSTALLED IN ATTIC. 4.5. DESIGN AND UNIT SELECTION EXTERNAL STATIC PRESSURE MUST INCLUDE FILTER PRESSURE DROP
- 5. CONSTRUCTION REQUIREMENTS: 5.1. PROVIDE 3/4" PVC CONDENSATE DRAIN TO NEAREST DRAIN OR DRAIN TAIL PIECE.
- 5.2. PROVIDE WATER TIGHT CORROSION-RESISTANT PAN BELOW COOLING COIL W/ 3/4" PVC DRAIN OR AS REQUIRED BY MANUFACTURE. LINE W/ MIN 1/8" PER 1'-0" SLOPE TOWARDS DRAIN TO EXTERIOR POINT THAT IS READILY OBSERVED OR PROVIDE WATER DETECTING DEVICE THAT WILL SHUT OFF EQUIPMENT WHEN WATER IS DETECTED.
- 5.3. PROVIDE CONDENSATE LIFT PUMP WHEN REQUIRED BY INDOOR UNIT OR IF SLOPED CONDENSATE PIPING WILL NOT ROUTE PROPERLY TO DRAIN CONNECTION. 6. ALTERNATES & MODIFICATIONS:
- 6.1. ALTERNATE LOCATIONS
- 6.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED FOR OPTIMAL FIT. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM. 6.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE, MAINTENANCE AREA, \$ ACCESS TO EQUIPMENT PRIOR TO RELOCATING
- 6.2. ALTERNATE EQUIPMENT 6.2.1. EQUIPMENT SUBSTITUTIONS SHALL MEET OR EXCEED THE DESIGN SPECIFICATIONS FOR SEER/EER/HSPF, SHALL MATCH NOMINAL TONNAGE OF EQUIPMENT SPECIFIED, AND SHALL PROVIDE EQUIVALENT SYSTEM PERFORMANCE.

2.3 DUCTLESS SYSTEM COMPONENTS

1. GENERAL REQUIREMENTS

- I.I. PROVIDE ACCESS PER MANUFACTURER REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO CLEARANCES & ACCESS PANEL ACCESSORIES. 2. ALTERNATES & MODIFICATIONS: 2.1. ALTERNATE LOCATIONS
- 2.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED FOR OPTIMAL FIT. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM. 2.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE & ACCESS TO EQUIPMENT PRIOR TO RELOCATING.
- 2.2. ALTERNATE EQUIPMENT 2.2.1. EQUIPMENT SUBSTITUTIONS SHALL MEET OR EXCEED THE DESIGN SPECIFICATIONS FOR SEER2/EER2 & AFUE/HSPF2, SHALL MATCH NOMINAL TONNAGE OF EQUIPMENT SPECIFIED, AND SHALL PROVIDE EQUIVALENT SYSTEM PERFORMANCE PER THE REQUIREMENTS OF SECTIONS 1.4 \$ 1.5.
- 2.2.2. ALL EQUIPMENT MUST HAVE VALID AHRI CERTIFICATION AT TIME OF INSTALLATION.

2.4 DAMPERS

- 1. GENERAL REQUIREMENTS I.I. DAMPERS TO BE ACCESSIBLE FOR ADJUSTMENT AND MAINTENANCE, WHERE NOT ACCESSIBLE THROUGH ATTIC BEHIND CEILING MOUNTED FAN/GRILLE, PROVIDE 14X14 WALL/CEILING ACCESS PANEL. PANEL TO HAVE SAME FIRE RATING AS WALL/CEILING, WHERE REQUIRED, SEE ARCHTIECTURAL PLANS FOR FIRE RATING SPECIFICATIONS. 1.2. MANUAL VOLUME DAMPERS:
- 1.2.1. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL BOXES, DIFFUSERS, GRILLES AND REGISTERS AND SHALL BE LOCKED IN THE FINAL POSITION AFTER COMPLETION OF AIR BALANCE. SEE ARCHITECTURAL PLANS AND ACOUSTICAL REPORT (WHERE OCCURS) FOR ACOUSTICAL REQUIREMENTS 1.2.2. MANUAL DAMPERS MAY BE OMITTED WHERE INSTALLER IS ABLE TO BALANCE SYSTEM WITHOUT USE OF DAMPER.
- 1.3. MOTORIZED DAMPERS: 1.3.1. INSTALL A MOTORIZED DAMPER AT THE TRUNK OF EACH ZONE OF MULTI-ZONE SYSTEMS. 1.3.2. DAMPER TO HAVE EXTERNAL MOUNTED POWER ACTUATOR, INSTALLED IN FLOATING POSITION WITH DAMPER STOP INSTALLED AS SPECIFIED IN SECTION 1.1.
- I.4. BAROMETRIC DAMPERS: 1.4.1. ADJUST COUNTERWEIGHT AS NEEDED TO ACHIEVE THE AIRFLOW SPECIFIED ON PLANS WHEN SMALLEST ZONE IS CALLING FOR SUPPLY AIR.
- 1.5. FIRE DAMPERS: 1.5.1. PROVIDE FIRE DAMPER AND/OR FIRE SMOKE (CALIFORNIA STATE FIRE MARSHALL APPROVED) AT EVERY PENETRATION OF A FIRE/SMOKE RATED PARTITION. DAMPER TO HAVE SAME FIRE RATING AS PARTITION, SEE
- ARCHITECURAL PLANS FOR SPECIFICATIONS 1.5.2. FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 90A ¢ MANUFACTURER'S INSTRUCTIONS, BE UL-555 LISTED, AND BE RATED FOR THE SAME DURATION AS THE FIRE ASSEMBLY BEING PENETRATED.
- 1.5.3. FIRE RATED ACCESS IS REQUIRED AT EACH DAMPER. ACCESS MAY BE PROVIDED THROUGH ATTIC ACCESS, REMOVABLE GRILLE, OR CEILING ACCESS PANEL 1.5.4. AT ATTIC APPLICATIONS WHERE DUCT DOES NOT PASS THROUGH CEILING, A RADIATION DAMPER MAY BE USED AS AN ALTERNATE TO THE FIRE DAMPER.
- I.6. RADIATION DAMPERS: I.6.I. RADIATION DAMPERS SHALL UL-555C RATED HINGE DOOR TYPE DAMPERS. DAMPER TO HAVE SAME FIRE RATING AS PARTITION, SEE ARCHITECURAL PLANS FOR SPECIFICATIONS.

DUCTED AIR TRANSFER SYSTEM. CEILING GRILLES SIZED TO MATCH AIR SUPPLY, RETURN, OR EXHAUST TO SPACE WITH MAXIMUM 400FPM AIR VELOCITY FOR BOTH DUCTWORK AND GRILLES. TYPICAL SIZES: KEYNOTES

- IOXIO MAX 240CFM / I4XIA MAX 470CFM / 24XIA MAX 820CFM
- (IIB) I6XI6 DOOR LOUVERS AT +12"
- PROVIDE FLEXIBLE CONNECTION FOR VIBRATION ISOLATION ON ALL DUCTWORK CONNECTIONS TO FANS OR UNITS. TRANSITION DUCTWORK TO FAN INLET AS REQUIRED.
- 24 PROVIDE CEILING ACCESS PANEL WHERE FAN/DAMPER OR VAV BOX IS NOT ACCESSIBLE THROUGH ATTIC. PANEL TO HAVE SAME FIRE RATING AS CEILING, WHERE REQUIRED, SEE ARCHITECTURAL PLANS FOR FIRE RATING SPECIFICATIONS 33 EXHAUST VENT WYE, SIZE AS NOTED ON PLANS ROLITE
- 33 EXHAUST VENT WYE, SIZE AS NOTED ON PLANS. ROUTE SINGLE VENT RISER TO ROOF OR WALL, UNO. VENT BRANCH DUCTS SHALL CONNECT TO MAIN VENT RISER SEPARATELY WITH INDIVIDUAL FITTINGS TO PREVENT ANY POSSIBLE BACK-FLOW. THE LARGEST DUCT SHALL ALWAYS ELBOW TO THE BEGINNING OF THE RISER VENT. SMALLER VENTS WILL CONNECT WITH INDIVIDUAL FITTINGS DOWNSTREAM OF MAIN RISER ELBOW.
- BBA ROUTE SHEET METAL DUCT THROUGH CEILING FRAMING AS REQUIRED. RECTANGULAR DUCTS MAY BE ROTATED, SPLIT UP, OFFSET OR TRANSITIONED TO ROUND DUCT AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. ROUND DUCT MAY BE SPLIT UP, OR OFFSET AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. ANY DUCT ALTERATIONS SHALL COMPLY WITH SMACNA DUCT DESIGN REQUIREMENTS.
- 39A ROUTE DUCTWORK AS HIGH AS NEEDED TO PASS OVER AND AVOID LOW CONFLICTS. SUPPORT AS REQUIRED.
- 40) SEALED COMBUSTION WATER HEATER, BY OTHERS. MUST MEET REQUIREMENTS OF TITLE 24 DOCUMENTATION. PROVIDE CONCENTRIC VENT THROUGH WALL, UNO. SEE MN.I, SECTION 3.3 FOR SPECIFICATIONS AND ALTERNATES

| | | | | FAI | N SC | HEDUL | _E | | |
|--|--|---|---|---|--|---|--|--|---|
| | | TYPE | MAKE | F T | FAN | CFM | ENERGY | WEIGHTS | |
| | | | CDEENIUES | × ¬ | | 50NES 400 | CONTROL 1/10 HP | (LXWXH) 50 LB | PROVIDI |
| | COPY ROOM | | CUB-80-V | G MOL | JNTED | 7.7 | А | 24X24XI | - SPEED 4 CONTROLL |
| | MEN'S RESTROOM | REF | GREENHEC SQ-90-VC | K IN EXH | LINE IAUST | 550 @0.25_SP 7.2 | 1/10 HP A | 45 LB | PROVID SPEED CONTRO |
| | WOMEN'S RESTROOM | REF | GREENHEC | K IN G EX+ | LINE IAUST | 350 @0.25 SP | 1/10 HP | 45 LB | PROVID SPEED |
| | JANITOR | JEF | GREENHEC | K CE | | 100 | 80 WATTS | 25 LB | |
| | CLOSET | | SP-BII0 | EX+ | | 2.2 | A 80 | 12X14X8 25 LB | |
| | SECURITY ROOM | | SP-BII0 | K MOL EX+ | JNTED IAUST | 2.2 | A 80 | 12X14X8 | |
| | STORAGE | SEF | GREENHEC SP-BIIO | .K CE MOL EXH | ILING JNTED IAUST | 100 2.2 | WATTS A | 25 LB 12X14X8 | |
| | SHOWERS | SHER 1 | GREENHEC SQ-80-VC | K IN G EXH | ILET IAUST | 250 @0.25 SP 7.2 | 1/10 HP A | 45 LB | PROVIE SPEEL CONTRO |
| | SHOWERS | SHER 2 | GREENHEC SP-BII0 | K CE MOL FXH | ILING JNTED | 100 | 80 WATTS | 25 LB | |
| | | | PLASTEC PI | CHE 5-6 RES | | 170 .@0.15 SP | 1/4 HP | 75 LB | PROMI SPEEL |
| | POOL | /PEF | | CHE | | 80 @0.25 SP | D 1/8 HP | 16X16X24 75 LB | PROVID |
| | EQUIPMENT ROOM | 2 | PLASTEC SI | 6 CUE | | 80 | D 1/8 HP | 12X12X12 | |
| | POOL EQUIPMENT ROOM | PEF\ 3 | PLASTEC SI | 0-4 RESI | ISTANT FAN | @0.25 SP | D | 12X12X12 | SPEEL CONTR |
| | | 2. PR 3. PR AN INT 4. PR CC FO PR FAN | CONTROL OF | CONTROL STER C EXHAUS HECK VA SSURE D PROG TROL. | ULATOR LER T ONTRO DT FAN: ARI-GR SENSOF RAM F | CO INTERF, LLER. ADI S EEN OPTIC RS, TUBIN OR STANE FOLLOWS | ACE WITH DRESS AI DNAL SPA G, AND (DALONE E | A EXHAU ND PROC ACE PRE COMPONI BUILDING | ST FAN GRAM - SSURE ENTS STATI |
| | | A B C D | FAN OPERA TIME CLOCH FAN OPERA THERMOSTA FAN OPERA ROOM PRES RUNS CONT | ATES DU <. ATES DU AT WITH ATES DU BSURE C TINUOUSI | RING C RING C ADJUS RING C ONTRO _Y FOR | DCCUPIED DCCUPIED DTABLE SI DCCUPIED L. SAFETY | HOURS. (HOURS. (ET POINT HOURS. (| CONTROL CONTROL CONTROL | LED B |
| | | | | <u>ЈСТ М</u> | MATE | RIAL S | | ULE Emarks | |
| | | | | | ET ME | | | | |
| | | | RETURN DUC | | eet me | TAL UNO | | | |
| | | E | EXHAUST DUC | TS SHE | eet me | TAL UNO | | | |
| | GRILLE | REC | SISTER D | IFFUS | SER S | SCHED | ULE | T | |
| TYPE | DESCRIPTION | | MANUF | ACTURER | | MODEL | NUMBER | CEILIN | NG TYPE |
| SD-1 CEILING DIFFUSER | DUCTWORK CEILING DIFFUSER | | F | PRICE OR IVALENT | | SMC W THI | CD-4 AY ROW; | SHEE SUPP MUD F | T ROCK. LY WITH RING FOR |
| SD-2 WALL SUPPLY | SUPPLY WALL GRILL | | F | PRICE OR | | 62 NC | 20D; X24 | SHEE SUPP MUD F | T ROCK LY WITH RING FO |
| GRILL RG-1 WALL RETURN | RETURN GRILL F | F | | | 63 | 30D | INS SHEE SUPP MUT | TALL. T ROCK. LY WITH D RING | |
| GRILLE RG-2 WALL | RETURN WALL | | EQU F | PRICE | | 63 | 30D | FOR I SHEE SUPP | NSTALL T ROCK |
| GRILLE EG-I CEILING | EXHAUST | | EQU | IVALENT | | 510Z | | MUD RING FOR INSTALL. SHEET ROCK. SUPPLY WITH | |
| RETURN GRILLE EG-2 WALL | GRILLE | OR 510Z EQUIVALENT PRICE | | 30 | SHEE | RING NSTALL T ROCK | | | |
| EXHAUS | GRILLE | PRICE | | MUD RING FOR INSTALL. SHEET ROCK. SUPPLY WITH | | | | | |
| GRILLE TG-1 CEILING | ANSFER GRILLE OR 510Z RILLE EQUIVALENT | | 30 | FOR I SHEE SUPP | V KING NSTALL T ROCK. LY WITH | | | | |
| GRILLE TG-1 CEILING TRANSFER GRILLE TG-2 WALL | TRANSFER | | - | IVALENT | | 6 | | FOR I |) RING NSTALL |
| GRILLE TG-1 CEILING TRANSFER GRILLE TG-2 WALL TRANSFER GRILLE | TRANSFER GRILLE | | | | | | | | |
| GRILLE TG-1 CEILING TRANSFER GRILLE TG-2 WALL TRANSFER GRILLE TAG MAKE | TRANSFER GRILLE | | T PUMP S | INDOOR UNIT | SEER/ | EER HSPF | VOLT/PH | MCA FUSE | WEIGH ⁻ ROUGH |
| GRILLE TG-1 CEILING TRANSFER GRILLE TG-2 WALL TRANSFER GRILLE TAG MAKE | TRANSFER GRILLE INDOOR OUTDOOR MODEL NTXMSM4 | HEA CLG.C CLG.LG 32,40 | AP HTG.CAP DAD HTG.LOAD 00 45,300 | INDOOR UNIT CFM | SEER/ | EER # HSPF | VOLT/PH 208/230- | MCA FUSE SIZE 29 | WEIGH ROUGH SIZE 300 |
| GRILLE TG-1 CEILING TRANSFER GRILLE TG-2 WALL TRANSFER GRILLE TAG MAKE HP HP | TRANSFER GRILLE INDOOR OUTDOOR MODEL OUTDOOR MODEL NTXMSM4 4 TON | HEA CLG.C CLG.LC 32,40 28,30 32,40 | TPUMP S AP HTG.CAP DAD HTG.LOAD DO 45,300 DO 29,400 DO 45,300 | INDOOR UNIT CFM | DULE SEER/2 ARI /- | EER # HSPF | VOLT/PH | MCA FUSE SIZE 29 40 4.4 | WEIGH ROUGH SIZE 300 44LX14WX5 100 |

3) ADJUST FAN COIL UNIT FAN SPEED AS NEED TO MATCH SCHEDULED AIRFLOW PERFORMANCE

6) PROVIDE MINIMUM SERVICE AND OPERATION CLEARANCES AS REQUIRED BY MANUFACTURER
 6) PROVIDE CONDENSATE LIFT PUMPS AS REQUIRED

6) PROVIDE CONDENSATE LIFT FOULPS AS REQURED
7) MASTER CONTROLLER: TE-200A (100-240V, IPH). COORDINATE LOCATION WITH OWNER.
8) TOUCH MA CONTROLLER: TAR-CTOIMAU-SB. COORDINATE LOCATIONS WITH OWNER.
9) PROVIDE MULTI-FUNCTION CASEMENT DUCT CONNECTOR FOR CEILING CASSETE UNITS.
10) TRANE CONTACT: JEFF MARTIN (916)778-7842 JEFF.MARTIN@TRANETECHNOLOGIES.COM

) FLEXIBLE CONNECTORS FOR ALL DUCT CONNECTIONS

| - 0 | | |
|---|---|--|
| OPERS RESPONSIBILITY THE MN SHEETS AND THE STRUCTURE. | FOR JURISDICTIO | ON USE: |
| T TO CHANGE AND N. ANY CONSTRUCTION/ NICE IS THE IDDER. | | |
| NOTES | | |
| AND INSTALLED WITHIN HALL BE COORDINATED ATION TO ENSURE ALL OR SERVICING. DUTS AND DUCTWORK HANGES WITH E REQUIRED TO OCCUR FALLATION OF THE DUIPMENT AND NGE DUCTWORK IDED TO PROPERLY RUCTURAL ELEMENTS | | |
| K SYSTEMS SHALL BE DTHERWISE NOTED. ALL ION SHALL BE DONE IN X DUCT SHALL BE RK INSULATION SHALL | Structural Mechanica Electrical | Plumbing Energy |
| DAMPERS (MVD) FOR ANCH DUCT TO ALLOW DWN OR NOT. LOCATE IUST BEFORE TRUNK JCE NOISE. ED, PER THE ENERGY | ramento iso Viejo Ramon | 877.1430 oan.com |
| ALL BE INSTALLED IN UNIT THAT HAS A PER PERSON OR LESS. WEEN 3 AND 6 ABOVE FANS SHALL HAVE IG THE AHU SUPPLY | Sac All Sar | free 800.8 Iarrisandsl |
| CT DETECTORS AND EXCEPTION USED. ND AUTO-SHUT WITH CT DETECTORS SHALL | | an _{toll} |
| | | harris & slo |
| | | |
| ND PECIFICATION. REFER JLE ON THIS SHEET. | | |
| FERENCE. SHEET #. SPECIFICATION. REFER HIS SHEET. | | |
| JCT (DROPPED CEILING) | E E | NO 00 |
| JCT JCT (DROPPED CEILING) YENT/JUMP DUCT YENT/JUMP DUCT CEILING) | SWIM CLU STA, CA | RPORATI CE, SUITE 2 D, CA 8 |
| FORCED AIR UNIT, HORIZONTAL | ERA S | D COI BHT PLA ARLSBA 9200 |
| ERTICAL | COTA V | HOMEFE 1903 WRIG C |
| LLE, SEE MN.I, CTION OF AIRFLOW iRILLE SIZE = AIRFLOW (ALL ZONES OPERATING)) = AIRFLOW (ONE ZONE OPERATING, WHERE OCCURS) | | |
| LLE, SEE MN.I, CTION OF AIRFLOW ¡RILLE SIZE | | |
| ER GRILLE, SAME SIZE GRILLE IN ROOM, SEE IN 2.3 | PROJECT: | CLIENT: |
| F AIRFLOW | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: | GER: MW CB QES MW |
| EE MN.1, SECTION 2.5 | ISSUE DATE: REVISIONS: | 01-13-2023 |
| IN.1, SECTION 2.6 MONOXIDE DETECTORS, | | |
| XIDE DETECTOR ECTOR CONTROL WITH FAULT | STAMP: | SSIONAL D. PEDAL CH |
| URN DUCT RISER | STHE OF CA | 171RES 50/24 8824 4NICM ↓ ↓ ↓ |
| | | |
| NT RISERS TS | PLAN NUMBER: SHEET TITLE: | 1ENT 1 |
| NT RISERS TS TER, SEE MN.1, | PLAN NUMBER: SHEET TITLE: LEV MECH/ LAY | IENT 1 EL 1 ANICAL OUT |
| NT RISERS TS TER, SEE MN.I, ARCHITECT W/ MIN 30" | PLAN NUMBER: SHEET TITLE: LEV MECH/ LAY | /ENT 1 /EL 1 ANICAL /OUT = 1'-0" |
| NT RISERS TS TER, SEE MN.I, ARCHITECT W/ MIN 30" OTRUCTURAL PLANS | SHEET TITLE: LEV MECH/ LAY SCALE: 1/4" : SHEET NUMBER: | 1ENT 1 TEL 1 ANICAL OUT |

- GA ROUTE LINESET TO FAN COIL UNITS. COORDINATE ROOTING WITH STRUCTURAL FOR ALLOWABLE PENETRATIONS AS REQUIRED.
- DUCTED AIR TRANSFER SYSTEM. CEILING GRILLES SIZED TO II MATCH AIR SUPPLY, RETURN, OR EXHAUST TO SPACE WITH MAXIMUM 400FPM AIR VELOCITY FOR BOTH DUCTWORK AND CRILLES TYPICAL SIZES.
- 10X10 MAX 240CFM / 14X14 MAX 470CFM / 24X14 MAX 820CFM THROUGH-WALL AIR TRANSFER GRILLE.
- (IIB) IGXIG DOOR LOUVERS AT +12"
- (19B) PROVIDE FLEXIBLE CONNECTION FOR VIBRATION ISOLATION ON ALL DUCTWORK CONNECTIONS TO FANS OR UNITS. TRANSITION DUCTWORK TO FAN INLET AS REQUIRED.
- 24 PROVIDE CEILING ACCESS PANEL WHERE FAN/DAMPER OR VAV BOX IS NOT ACCESSIBLE THROUGH ATTIC. PANEL TO HAVE SAME FIRE RATING AS CEILING, WHERE REQUIRED, SEE ARCHITECTURAL PLANS FOR FIRE RATING SPECIFICATIONS
- 33 EXHAUST VENT WYE, SIZE AS NOTED ON PLANS. ROUTE SINGLE VENT RISER TO ROOF OR WALL, UNO. VENT BRANCH DUCTS SHALL CONNECT TO MAIN VENT RISER SEPARATELY WITH INDIVIDUAL FITTINGS TO PREVENT ANY POSSIBLE BACK-FLOW. THE LARGEST DUCT SHALL ALWAYS ELBOW TO THE BEGINNING OF THE RISER VENT. SMALLER VENTS WILL CONNECT WITH INDIVIDUAL FITTINGS DOWNSTREAM OF MAIN RISER ELBOW.
- BAA ROUTE SHEET METAL DUCT THROUGH CEILING FRAMING AS REQUIRED. RECTANGULAR DUCTS MAY BE ROTATED, SPLIT UP, OFFSET OR TRANSITIONED TO ROUND DUCT AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. ROUND DUCT MAY BE SPLIT UP, OR OFFSET AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. ANY DUCT ALTERATIONS SHALL COMPLY WITH SMACNA DUCT DESIGN REQUIREMENTS. REQUIREMENTS.
- 39A ROUTE DUCTWORK AS HIGH AS NEEDED TO PASS OVER AND AVOID LOW CONFLICTS. SUPPORT AS REQUIRED.
- 40) SEALED COMBUSTION WATER HEATER, BY OTHERS. MUST MEET REQUIREMENTS OF TITLE 24 DOCUMENTATION. PROVIDE CONCENTRIC VENT THROUGH WALL, UNO. SEE MN.I, SECTION 3.3 FOR SPECIFICATIONS AND ALTERNATES

COPY ROOM CEF GREENHECK L ROOF CUB-80-VG ROOF MOUNTED ROOF MOUNTED CFM ENERGY WEIGHTS WEIGHTS CONTROL (LXWXH) NOTES NOTES COPY ROOM CEF GREENHECK CUB-80-VG ROOF MOUNTED GOOF 7.7 1/10 HP 50 LB PROVIDE SPEED MEN'S RESTROOM REF 1 GREENHECK SQ-90-VG INLINE EXHAUST 550 @0.25 SP 1/10 HP 45 LB PROVIDE SPEED CONTROL women's RESTROOM GREENHECK 1 GREENHECK SQ-80-VG INLINE EXHAUST 350 @0.25 SP 1/10 HP 45 LB PROVIDE SPEED CONTROL INLINE RESTROOM GREENHECK 1 INLINE SQ-80-VG INLINE EXHAUST 350 @0.25 SP 1/10 HP 45 LB PROVIDE SPEED CONTROL JEF GREENHECK CEILING MOUNTED EXHAUST 100 80 WATTS 25 LB 1 GREENHECK CEILING MOUNTED EXHAUST 2.2 A 12X14X8 JANITOR CLOSET GREENHECK SP-BII0 CEILING MOUNTED EXHAUST 2.2 A 12X14X8 SCER SECURITY ROOM <u>'</u> STORAGE GREENHECK
SQ-80-VGINLET
EXHAUST250
@0.25 SP1/10 HP45 LB
45 LB
SPEDPROVIDE
SPED
CONTROL SHOWERS GREENHECK SP-BIIO GREENHECK SP-BIIO CEILING MOUNTED EXHAUST 2.2 . SHEA SHOWERS 2 EXHAUST 2.2 A 12X14X8 PLASTEC PI5-6 RESISTANT POOL EQUIPMENT ROOM FAN -- D 16X16X24 CONTROL _____ CHEMICAL 00.25 SP 1/8 HP 75 LB PROVDE POOL EQUIPMENT ROOM FAN -- D 12X12X12 CONTROL PEF PLASTEC SI0-4 CHEMICAL RESISTANT FAN 80 0.25 SP 1/8 HP 75 LB FROMDE SPEED 0 12X12X12 CONTROL POOL EQUIPMENT ROOM I. SEE MN.I SECTION 2.4 FOR SPECIFICATIONS, SEE DETAIL C/MN.2 FOR TYPICAL EXHAUST FAN CONNECTION. 2. PROVIDE VIBRATION ISOLATORS 3. PROVIDE DIDO CONTROLLER TO INTERFACE WITH EXHAUST FANS AND TE-200 MASTER CONTROLLER. ADDRESS AND PROGRAM TO INTERACT WITH EXHAUST FANS 4.PROVIDE GREENHECK VARI-GREEN OPTIONAL SPACE PRESSURE CONTROLS, PRESSURE SENSORS, TUBING, AND COMPONENTS FOR PEF-I\$2 AND PROGRAM FOR STANDALONE BUILDING STATIC PRESSURE CONTROL. FAN CONTROL - OPERATION AS FOLLOWS: A - FAN OPERATES DURING OCCUPIED HOURS. CONTROLLED BY TIME CLOCK. B - FAN OPERATES DURING OCCUPIED HOURS. CONTROLLED BY THERMOSTAT WITH ADJUSTABLE SET POINT. C - FAN OPERATES DURING OCCUPIED HOURS. CONTROLLED BY ROOM PRESSURE CONTROL. D - RUNS CONTINUOUSLY FOR SAFETY DUCT MATERIAL SCHEDULE REMARKS TYPE MATERIAL SUPPLY DUCTS SHEET METAL UNO RETURN DUCTS SHEET METAL UNO EXHAUST DUCTS SHEET METAL UNO GRILLE REGISTER DIFFUSER SCHEDULE MODEL NUMBER CEILING TYPE DESCRIPTION MANUFACTURER SHEET ROCK. SUPPLY WITH MUD RING FOR SMCD-4 DUCTWORK PRICE OR CEILING DIFFUSER THROW; NC<24 EQUIVALENT INSTALL SHEET ROCK. SUPPLY WITH MUD RING FOR PRICE 620D; NC<24 SUPPLY WALL GRILL EQUIVALENT SHEET ROCK. SUPPLY WITH MUD RING FOR INSTALL. PRICE OR RETURN GRILLE 630D EQUIVALENT SHEET ROCK

FAN SCHEDULE

| F K RE GF | RG-1 IALL TURN RILLE | ٦ G | RETURN | | F EQU | PRICE OR IVALENT | | 63 | 30D | SHEE SUPF MU FOR | ET ROCK. PLY WITH D RING INSTALL |
|----------------------|----------------------------------|-----------|-------------------|----------|----------|------------------------|----------|------|------------|------------------------------------|---|
| R S R R G G | IG-2 IALL TURN RILLE | RET | URN WALL RILLE | | F EQU | PRICE OR IVALENT | | 63 | 30D | SHEE SUPF MU F <i>O</i> R | ET ROCK. PLY WITH D RING INSTALL |
| E CE RE GF | EG-I IILING TURN RILLE | E. G | XHAUST RILLE | | F EQU | PRICE OR IVALENT | | 5 | 10Z | SHEE SUPF MU FOR | ET ROCK. PLY WITH D RING INSTALL |
| E K EXH GR | G-2 IALL IAUST RILLE | E. G | XHAUST RILLE | | F EQU | PRICE OR IVALENT | | 6 | 30 | SHEE SUPF MU FOR | ET ROCK. PLY WITH D RING INSTALL |
| T CE TRA GF | TG-1 TILING NSFER RILLE | AT G | RANSFER | | F EQU | PRICE OR IVALENT | | 5 | 10Z | SHEE SUPF MU FOR | ET ROCK. PLY WITH D RING INSTALL |
| TRA GF | G-2 IALL NSFER RILLE | AT G | RANSFER | | F EQU | PRICE OR IVALENT | | 6 | 30 | SHEE SUPF MU FOR | ET ROCK. PLY WITH D RING INSTALL |
| | | | | | | | | | | | |
| | | 1 | | HEAT | PUMPS | SCHED | ULE | 1 | 1 | | 1 |
| ٨G | MAKE | | | CLG.CAP | HTG.CAP | | SEER/EEF | UEDE | | MCA | WEIGH |
| AG | TIARE | MODEL | MODEL | CLG.LOAI | HTG.LOAD | CFM | ARI # | | VOLIVIA | FUSE SIZE | ROUGI SIZE |
| HP\ | MITCURICU | | | 32,400 | 45,300 | | / | | 209 (220 1 | 29 | 300 |
| 1 | | | 4 T <i>O</i> N | 28,300 | 29,400 | | | | 208/250-1 | 40 | 44LXI4WX |
| HP\ | MITGURIGU | TPEFYP048 | | 32,400 | 45,300 | 1100 | / | | 208/230-1 | 4.4 | 100 |
| <u>ia</u> / | | AI44 | | | | 100 | | | 200/230-1 | 15 | 56WX30LX |
| | | | | | | | | | | | |

PROVIDE COMPLETE AND FUNCTIONAL SYSTEM CAPABLE OF INDIVIDUAL ZONE CONTROL. SYSTEM SHALL INCLUDE ALL COMPONENTS NECESSARY FOR PROPER OPERATION INCLUDING: CONTROL DAMPER (WHEN INDICATED) SHALL BE COORDINATED WITH MANUFACTURER PRIOR TO ORDERING AND SHALL BE ROUTED AND ARRANGED AS REQUIRED. AHUS:

HEAT PUMP PROVIDE AND INSTALL FOR EACH AHU:

TYPE

SD-1 CEILING DIFFUSER

SD-2 WALL SUPPLY GRILL

- I) FILTER BOX (50 LBS) VIBRATION ISOLATORS FOR MOUNTED EQUIPMENT ADJUST FAN COIL UNIT FAN SPEED AS NEED TO MATCH SCHEDULED AIRFLOW PERFORMANCE) FLEXIBLE CONNECTORS FOR ALL DUCT CONNECTIONS 5) PROVIDE MINIMUM SERVICE AND OPERATION CLEARANCES AS REQUIRED BY MANUFACTURER
 6) PROVIDE CONDENSATE LIFT PUMPS AS REQUIRED MASTER CONTROLLER: TE-200A (100-240V, 1PH). COORDINATE LOCATION WITH OWNER.
 TOUCH MA CONTROLLER: TAR-CTOIMAU-SB. COORDINATE LOCATIONS WITH OWNER.
- 9) PROVIDE MULTI-FUNCTION CASEMENT DUCT CONNECTOR FOR CEILING CASETE UNITS. 10) TRANE CONTACT: JEFF MARTIN (916)778-7842 JEFF.MARTIN@TRANETECHNOLOGIES.COM

- POOL BUILDING EQUIPMENT ROOM HAS FULL LOUVERED DOORS AND (4) TALL WALL OPENINGS THAT PROVIDE MORE NET FREE AREA OPENINGS THAN REQUIRED BY CODE FOR VENTILATION
- LOUVERS
- POOL CHEM. STORAGE 10'-1" CLG. CONCRETE
- 12X12 HIGH & LOW DOOR LOUVERS

KEYNOTES

| GENERAL NOTES | | |
|--|--|--|
| IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE MN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. | FOR JURISDICTI | ON USE: |
| . PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE | | |
| NON-RESIDENTIAL NOTES | | |
| . GENERAL HVAC INSTALLATION NOTE: ALL EQUIPMENT AND DUCTWORK LOCATED AND INSTALLED WITHIN THE FLOOR, CEILING OR TRUSS SYSTEM SHALL BE COORDINATED AMONGST THE TRADES PRIOR TO INSTALLATION TO ENSURE ALL DECUMPED OF RANGES ARE MAINTAINED FOR SERVICING | | |
| CONTRACTOR TO ADJUST EQUIPMENT LAYOUTS AND DUCTWORK ROUTES AS NEEDED. COORDINATE ANY CHANGES WITH STRUCTURAL. HVAC INSTALLATION MAY BE REQUIRED TO OCCUR BEFORE OR CONCURRENTLY WITH THE INSTALLATION OF THE EDAMING SYSTEMS TO ENSURE PROPER FOUNMENT AND | | |
| ELEVATIONS OR STACK DUCTWORK AS NEEDED TO PROPERLY ROUTE DUCTWORK. COORDINATE WITH STRUCTURAL ELEMENTS AND EQUIPMENT CLEARANCES. | | |
| 2. PROVIDE MERV 13 FILTERS FOR ALL NON-RESIDENTIAL HVAC BYSTEMS 3. ALL NON-RESIDENTIAL HVAC DUCTWORK SYSTEMS SHALL BE | tural anical ical | oing y |
| DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH SMACNA AND CMC. FLEX DUCT SHALL BE LIMITED TO 5' MAXIMUM LENGTH. DUCTWORK INSULATION SHALL BE R8 MINIMUM | Struc [†] Mech Electr | Plumt Energ |
| 4. PROVIDE FULL SIZE MANUAL VOLUME DAMPERS (MVD) FOR EACH SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TO ALLOW FOR SYSTEM AIR BALANCING WEATHER SHOWN OR NOT. LOCATE TVD TO BE ACCESSIBLE AND UPSTREAM JUST BEFORE TRUNK | ento 'iejo mon | 430 com |
| CONNECTION WHENEVER POSSIBLE TO REDUCE NOISE. 5. CONTROL REQUIREMENTS: DEMAND CONTROL VENTILATION IS REQUIRED, PER THE ENERGY CODE COMPLIANCE FORM. CO2 SENSORS SHALL BE INSTALLED IN | icrame Aliso V an Rai | .877.1 sloan.(|
| CACH ROOM SERVED BY THE MECHANICAL UNIT THAT HAS A DESIGN OCCUPANCY OF 40 SQUARE FEET PER PERSON OR LESS. THE CO2 SENSOR SHALL BE LOCATED BETWEEN 3 AND 6 ABOVE THE FLOOR. BUILDING PRESSURE EXHAUST FANS SHALL HAVE 2-SPEED CONTROL AND OPERATE MATCHING THE AHU SUPPLY | ů, ů, | e 800 isand: |
| -AN AIRFLOWS. 6. HVAC NOTES: HVAC UNITS GREATER THAN 2000 CFM DUCT DETECTORS AND AUTO SHUT OFF ARE REQUIRED OR NOTE EXCEPTION USED. | | toll fre w.harı |
| CMC 609 COORDINATE DUCT DETECTORS AND AUTO-SHUT WITH THE FIRE ALARM SYSTEM. ALL SMOKE DUCT DETECTORS SHALL HAVE REMOTE TEST SWITCHES. | | |
| | | loa |
| | | |
| | | is & |
| | | arr |
| | | Ĺ |
| | | |
| | | |
| | | |
| SYMBOLS LEGEND | | |
| DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. | | |
| REFER TO DENOTED SHEET #. DENOTES EQUIPMENT SPECIFICATION. REFER TO SCHEDULES ON THIS SHEET. | | |
| D | <u>в</u> | NO |
| RETURN DUCT | CLL | RATI UITE 2 |
| | SWIN STA, C | RPO ACE, S AD, CA |
| FORCED AIR UNIT, | | |
| HORIZONTAL | ERA | D CO HT PL/ ARLSB/ 9200 |
| HORIZONTAL HORIZONTAL | TA VERA CHULA V | AEFED CO 3 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZONTAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZONTAL FORCED AIR UNIT, VERTICAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZO | COTA VERA CHULA V | HOMEFED CO 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZO | OLECT: COTA VERA CHULA V | IENT: HOMEFED CO 1903 WRIGHT PL, CARLSB, 9200 |
| HORIZONTAL HORIZ | PROJECT WANA | CLIENT: CLIENT: CLIENT: 1903 WRIGHT PL, CARLSB, 9200 |
| HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZON HO | CHULA V CHULA V CHULA V CHULA V CHULA V CHULA V | Deficient: HOMEFED CO 1903 WRIGHT PL/ 1903 WRIGHT PL/ CARLSB/ 9200 |
| HORIZONTAL HORIZO | CHOLA VERA | CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, MM 01-13-2023 |
| HORIZONTAL HORIZON | CHOLA VERSE CHOLA | CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, 01-13-2023 |
| HORIZONTAL HORIZO | CHOLA VERSE CHECKED BALE: REVISIONS: | BODO CARLSB, C |
| HORIZONTAL HORIZO | TOHOR PROJECT MANAA DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | POMEFED CO HOMEFED CO 1903 WRIGHT PL/ 1903 WRIGHT PL/ CB MM 01-13-2023 |
| HORIZONTAL HORIZO | CHOLA VIEND | HOMEFED CO CARLSB, CARLSB, CARLSB, CARLSB, 01-13-2053 |
| HORIZONTAL HORIZO | CHOLA VALUE CHOLA | HOMEFED CO 1903 WRIGHT PL/ 1903 WRIGHT PL/ 1903 WRIGHT PL/ 1903 WRIGHT PL/ CB QES MW 01-13-2023 |
| HORIZONTAL HORIZO | CHOLA VERSIONS: | HOMEFED CO CARLSB, |
| HORIZONTAL HORIZO | CHOLAN STAMP: STAMP: PLAN NUMBER: CHOLAN STAMP: CHOLAN STAMP: CHOLAN STAMP: CHOLAN STAMP: CHOLAN STAMP: CHOLAN STAMP: S | HOMEFED CO SOLO |
| HORIZONTAL HORIZO | CHOLAN STAMP: PROJECT MANA DESIGNER: DRAWN BY: CHECKED BY: CHECKED BY: STAMP: PLAN NUMBER: SEGN SHEET TITLE: | HOMEFED CO CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, CARLSB, MM CB GES MM 01-13-2023 MM 01-13-2023 |
| HORIZONTAL HORIZO | CHOLAN BESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: VILLAN STAMP: CHECKED BY: CHECKED | HOMELED CO SUBJECT CARLSB CALSB |
| HORIZONTAL HORIZO | CHULAN STAMP: PLAN NUMBER: SEGN STAMP: PLAN NUMBER: SEGN SHEET TITLE: LEN MECHAN | |
| HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZON HORIZON HORIZON HALL HORIZON HORIZON HALL HORIZON HALL HORIZON HALL HORIZON HORIZON HALL HALL | CHULAN SCALE: 4 41 | |
| HORIZONTAL HORIZO | THEET NUMBER: SCALE: 14" | HOMELED CONT SUBJECT |
| HORIZONTAL HORIZO | CHULAN PROJECT MANA DESIGNER: DRAWN BY: CHECKED BY: CHECKED BY: ISSUE DATE: REVISIONS: STAMP: PROJECT MANA DESIGNER: CHECKED BY: CHECKED | |

| | BQ - Reversing Valve |
|---|---|
| | |
| | BO - Compressor Stage 1 |
| | BI - Fan Statu |
| | BO - Fan Start/S |
| | |
| OPERATION | |
| | 1.1AIR SOURCE HEAT F |
| | RUN CONDITIONS - SCH |
| | THE UNIT SHALL RUN A OCCUPIED MOD |
| M | A 74 F ADJ. Co |
| СТ | A 70 F ADJ. HE |
| | A 8 F ADJ. CC |
| | A F (ADJ.) H |
| | ALARMS SHALL BE PRO |
| | HIGH ZONE TEM DEFINABLE AMO |
| un continuously unless manually turned off. | LOW ZONE TEM AMOUNT (ADJ.). |
| status. | FAN: |
| | THE FAN SHALL RUN A |
| | HEATING AND COOLING THE CONTROLLER SHA |
| | SETPOINT. TO PREVEN COMPRESSOR SHALL F |
| | THE HEATING SHALL B |
| | OUTSIDE AIR TE |
| | |
| | |
| | OUTSIDE AIR TE |
| | AND THE FAN IS |
| | AND THE REVEN |
| paratures exceed 85 deg. E | ON MODE CHANGE, TH HAS CHANGED POSITIO |
| | FAN STATUS: |
| status. | THE CONTROLLER SHA |
| JST | ALARMS SHALL BE PRO |
| | FAN FAILURE: C FAN IN HAND: C |
| | FAN RUNTIME E |
| | |
| | |
| | |

CONTROLS: SEQUENCE OF OPERATION

JRCE HEAT PUMP

ITIONS - SCHEDULED: SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

CUPIED MODE: THE UNIT SHALL MAINTAIN

4 F ADJ. COOLING SETPOINT

0 F ADJ. HEATING SETPOINT

OCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN

F ADJ. COOLING SETPOINT.

F (ADJ.) HEATING SETPOINT.

HALL BE PROVIDED AS FOLLOWS:

H ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER FINABLE AMOUNT (ADJ.).

V ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE

HALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

ND COOLING - 1 COMPRESSOR STAGE:

ROLLER SHALL MEASURE THE ZONE TEMPERATURE AND CYCLE THE COMPRESSOR TO MAINTAIN ITS . TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE SOR SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

ING SHALL BE ENABLED WHENEVER: TSIDE AIR TEMPERATURE IS LESS THAN F ADJ. D THE FAN IS ON.

D THE REVERSING VALVE IS IN HEAT MODE.

ING SHALL BE ENABLED WHENEVER: TSIDE AIR TEMPERATURE IS GREATER THAN 0 F ADJ.

D THE FAN IS ON.

D THE REVERSING VALVE IS IN COOL MODE.

CHANGE, THE COMPRESSOR SHALL BE DISABLED AND REMAIN OFF UNTIL AFTER THE REVERSING VALVE GED POSITION..

ROLLER SHALL MONITOR THE FAN STATUS.

HALL BE PROVIDED AS FOLLOWS:

I FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

I IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

AIR SOURCE HEAT PUMP CONTROLS DIAGRAM

| BUILDING LOAD/SERVICE FEEDER CALCS | | | | | | |
|---------------------------------------|---------|-------------|--|--|--|--|
| BUILDING/SITE | SWI | M CLUB | | | | |
| BUILDING PANEL LOADS: FEEDER TYPE: | 208Y/12 | 20V, 3Φ, 4W | | | | |
| LIGHTING ~SF * 2VA/SF PLUS SITE | | 7,200VA | | | | |
| RECEPTACLES ~SF * 3VA/SF | | 8,000VA | | | | |
| FUTURE ON-SITE EVCS* @ 125% | 2 | 16,640VA | | | | |
| HVAC | | 15,000VA | | | | |
| WATER HEATER (TANKLESS) | 2 | 360VA | | | | |
| POOL PANEL | - | 54,000VA | | | | |
| LOW VOLTAGE (IT, FA, IRRIGATION, ETC) | | 500VA | | | | |
| TOTAL SERVICE DEMAND LOAD | | 101,700VA | | | | |
| TOTAL SERVICE DEMAND AMPS | | 283A | | | | |
| SERVICE FEEDER AMPS | | 400A | | | | |

BUILDING LOAD/FEEDER CALCULATIONS

| | | N/ 20 4W | | | | | Έ | ßF |)" | | | | | | | |
|----------|------------------------|----------|-------------|----------|------|---------|-----------|------|-----|-------------|---------|----------|-------|-----------|------------------------|-----|
| DUE | . 2001/120 | 2004 | | MOL | | NG | · 91 | IDE | | = /N | | A 3D) | | | | |
| 603 | | 200A | | | | NG D | . St T | | | | | | | LOCATION. | EXTERIOR OFF B | LDG |
| N S | LOAD DESCRIPTION | | | | | | | | | | | | | | LOAD DESCRIPTION | N S |
| <u> </u> | | ΨΑ | ΨΒ | Ψυ | | P | A | в | C | | P | ΨΑ 700 | ΨΒ | Ψυ | | 0 |
| 1 | OFF/KITCH/SEC/STOR LTG | | | | 20 | 1 | • | - | | 20 | 1 | 720 | | | SECURITY RECEPS | 2 |
| 3 | EXTERIOR LTG | | | | 20 | 1 | | • | | 20 | 1 | | 360 | | KITCH/STOR CONV RECEP | 4 |
| 5 | OFF MEET W RECEPS | | | 720 | 20 | 1 | | | ٠ | 20 | 1 | | | 800 | FRDIGE RECEP | 6 |
| 7 | OFF MEET E RECEPS | 540 | | | 20 | 1 | • | | | 20 | 1 | 400 | | | GARBAGE DISPOSAL RECEP | 8 |
| 9 | OFF W RECEPS | | 860 | | 20 | 1 | | • | | 20 | 1 | | 1,200 | | DISHWASHER RECEP | 10 |
| 11 | OFF E RECEPS | | | 860 | 20 | 1 | | | ٠ | 20 | 1 | | | 540 | KITCH AC RECEP | 12 |
| 13 | FIREPIT RECEP | 180 | | | 20 | 1 | • | | | 20 | 1 | 800 | | | PRINTER/COPIER RECEP | 14 |
| 15 | SPARE | | | | 20 | 1 | | ٠ | | 20 | 1 | | | | SPARE | 16 |
| 17 | EXTERIOR RECEPS | | | 360 | 20 | 1 | | | ٠ | 20 | 1 | | | | SPARE | 18 |
| | | | | SPLIT BL | IS F | OR | AG | GRE | EGA | \TIC | N (| OF LOADS | | | | |
| 19 | | 366 | | | 15 | 2 | • | | | 20 | 1 | | | | SPARE | 20 |
| 21 | | | 366 | | 10 | 2 | | ٠ | | 20 | 1 | | | | SPARE | 22 |
| 23 | HD_1 | | | 2,412 | 10 | 2 | | | ٠ | 15 | 1 | | | 200 | EXHAUST FANS | 24 |
| 25 | 111-1 | 2,412 | | | 40 | 2 | • | | | | | | | | SPACE | 26 |
| 27 | SPACE | | | | | | | ۲ | | | | | | | SPACE | 28 |
| 29 | SPACE | | | | | | | | ٠ | | | | | | SPACE | 30 |
| SUB | TOTAL: | 3,498 | 1,226 4,352 | | | | | | | | | 1,920 | 1,560 | 1,540 | SUBTOTAL | |
| TOT | AL VOLT-AMPERES/PHASE: | ΦA = | 5,418 | | Φ | B = | 2 | 2,78 | 6 | | | ΦC = | 5,892 | | | |
| TOT | AL PANEL VOLT-AMPERES: | | | | | | | | | | CONNECT | ED AMPS: | 39 | | | |

| \checkmark | NEW EXISTING | | | | | | | N/ | 111 | | | | | AIC: | 42KAIC (FIELD VER | lF |
|--------------|------------------------|------------|---------------|-------|-----|-----|-------|-----|-----|------|------|---------|----------|-----------|-------------------|-----|
| VOL | TAGE: 208Y/120 | OV, 3Φ, 4W | | | | | | IV | | | | | | MAIN: | | ML |
| BUS | | 400A | | MO | UN | TIN | G: II | NTE | GR | AL ' | TO I | MSB | | LOCATION: | ELEC | R |
| tο | | VC | LT-AMPEF | RES | C | В | | BUS | S | C | В | VC | DLT-AMPE | RES | | Ð |
| δž | LOAD DESCRIPTION | ФА | ΦВ | ФС | Т | Р | А | В | С | Τ | Р | ФА | ΦВ | ФС | LOAD DESCRIPTION | ð |
| 1 | SPARE | | | | 20 | 1 | • | | | 20 | 1 | 400 | | | REST/JAN EFS | 2 |
| 3 | SPARE | | | | 20 | 1 | | • | | 20 | 1 | | 400 | | STOR/ELEC EFS | 4 |
| 5 | SPARE | | | | 20 | 1 | | | • | 20 | 1 | | | 720 | POOL EQUIP EF | f |
| 7 | SPACE | | | | | | • | | | 20 | 1 | 400 | | | SHOWER EFS | 8 |
| 9 | SPACE | | | | | | | • | | 20 | 1 | | | | SPARE | 1 |
| 11 | SPACE | | | | | | | | ٠ | 20 | 1 | | | | SPARE | 1 |
| 13 | | 1,440 | | | | | ٠ | | | | | | | | | 1 |
| 15 | PANEL "R" | | 1,680 | | 60 | 3 | | • | |]6 | 3 | | | | PANEL "P" | 1 |
| 17 | | | | 1,940 | | | | | • | 1 | | | | | | 1 |
| 19 | | 6,656 | | | | | • | | | | | 1,250 | | | | 2 |
| 21 | PANEL "EV" | | 3,328 | | 10 | 3 | | • | | 60 | 3 | | 500 | | PANEL "L" | 2 |
| 23 | | | | 3,328 | | | | | • | | | | | 500 | | 2 |
| SUB | TOTAL: | 8,096 | 6 5,008 5,268 | | | | | | | | | 2,050 | 900 | 1,220 | SUBTC |)T/ |
| TOT | AL VOLT-AMPERES/PHASE: | ФA = | 10,146 | | - Φ | В = | 5,9 | 908 | | | | ΦC = | 6,488 | | | |
| тот | AL PANEL VOLT-AMPERES: | 22,542 | | | | | | | | | | CONNECT | ED AMPS: | 63 | | |

| | | | | | | | | | | | | | | - | |
|--------------|--------------------------|-----------|----------|-------|-----|-----|------|-----|-----|------|-------|------------|----|-----------|-----------------------|
| \checkmark | NEW EXISTING | | | | | | | = \ | / | | | | | AIC: | 42KAIC (FIELD VERIFY) |
| VOL | TAGE: 208Y/120 | V, 3Φ, 4W | | | | | _ | | | | | | | MAIN: | MLO |
| BUS | : | 100A | | | M | JUC | NTIN | IG: | SUF | RFA | CE | | | LOCATION: | ELEC RM |
| τo | | VO | LT-AMPEF | RES | 0 | СВ | | BUS | 3 | 6 CE | | VOLT-AMPER | | RES | |
| żΖ | EOAD DESCRIPTION | ΦА | ΦВ | ФС | Т | Ρ | Α | В | С | Т | Ρ | ФА | ΦВ | ФС | EOAD DESCRIPTION 5 Z |
| 1 | EV CAPABLE, RESERVED FOR | 3,328 | | | 10 | 2 | ٠ | | | 10 | 2 | | | | SDARE 2 |
| 3 | FUTURE ON-SITE EVCS | | 3,328 | |]+0 | | | • | | 40 | 2 | | | | 3FAILE 4 |
| 5 | EV CAPABLE, RESERVED FOR | | | 3,328 | 10 | 2 | | | ٠ | 40 | S | | | | SDADE 6 |
| 7 | FUTURE ON-SITE EVCS | 3,328 | | |]*' | 2 | • | | | 40 | 2 | | | | SFARE 8 |
| 9 | SPACE | | | | | | | ٠ | | | | | | | SPACE 10 |
| 11 | SPACE | | | | | | | | ٠ | | | | | | SPACE 12 |
| 13 | SPACE | | | | | | • | | | | | | | | SPACE 14 |
| 15 | SPACE | | | | | | | ٠ | | | | | | | SPACE 16 |
| 17 | SPACE | | | | | | | | ٠ | | | | | | SPACE 18 |
| SUE | STOTAL: | 3,328 | 3,328 | 3,328 | | | | | | | 0 0 0 | | | SUBTOTAL | |
| TOT | AL VOLT-AMPERES/PHASE: | 6,656 | | -φ | B = | 3,3 | 328 | | | | ΦC = | 3,328 | | | |

| VOL | TAGE: 208Y/ | 120ν, 3Φ, 4νν | |
|-----|-----------------------|---------------|-------|
| BUS | : | 200A | |
| Ļο | | VO | LT-Al |
| ΰz | LOAD DESCRIPTION | ФА | ¢ |
| 1 | SPACE | | |
| 3 | SPACE | | |
| 5 | SPACE | | |
| 7 | SPACE | | |
| 9 | SPACE | | |
| 11 | SPACE | | |
| 13 | SPACE | | |
| 15 | SPACE | | |
| 17 | SPACE | | |
| 19 | SPACE | | |
| 21 | SPACE | | |
| 23 | SPACE | | |
| 25 | SPACE | | |
| 27 | SPACE | | |
| 29 | SPACE | | |
| 31 | SPACE | | |
| 33 | SPACE | | |
| 35 | SPACE | | |
| 37 | SPACE | | |
| 39 | SPACE | | |
| 41 | SPACE | | |
| SUB | TOTAL: | 0 |) |
| тот | AL VOLT-AMPERES/PHASE | : ФА = | 0 |
| тот | AL PANEL VOLT-AMPERES | : 0 | |

| ا لنا ا | | J | | |
|---------|-------------------|----------|------------|------|
| VOL | TAGE: | 208Y/120 |)V, 3Φ, 4W | |
| BUS | : | | 100A | |
| τo | | | VO | LT-A |
| ΰz | | HON | ФА | ¢ |
| 1 | EXT BLDG LTG | | 400 | |
| 3 | SPARE | | | |
| 5 | SPARE | | | |
| 7 | SPACE | | | |
| 9 | SPACE | | | |
| 11 | SPACE | | | |
| 13 | EXTERIOR SITE LTG | } | 500 | |
| 15 | EXTERIOR SITE LTG | } | | 5 |
| 17 | EXTERIOR SITE LTG |) | | |
| SUB | TOTAL: | | 900 | 5 |
| TOT | AL VOLT-AMPERES/F | PHASE: | ΦA = | 1,25 |
| TOT | AL PANEL VOLT-AMF | PERES: | 2,250 | |
| | | | | |
| | | | | |
| 111 | | 2 | | |

| | NEW EXISTING | | | | | | | D | | | | | | AIC: 22KAIC (FIELD VERIF | | | |
|-----------|------------------------|------------|----------|-----|------|----------|-----------|----------|--------|------|-----|----------|----------|--------------------------|-----------------------|--|--|
| VOL | TAGE: 208Y/120 |)V, 3Φ, 4W | | | | | - | | | | | | | MAIN: | MLO | | |
| BUS | | 200A | | MOU | | NG: B | : SL I | | ACE | = (N | EM/ | A 3R) | | LOCATION: | POOL EQUIPMENT ROOM | | |
| CKT NO | LOAD DESCRIPTION | ΦA | ΦB | ΦC | Т | ,в Р | A | в03 В | C | Т | P | ΦΑ | ΦB | ΦC | LOAD DESCRIPTION | | |
| 1 | SPACE | | | | | | ٠ | | | | | | | | SPACE 2 | | |
| 3 | SPACE | | | | | | | • | | | | | | | SPACE 4 | | |
| 5 | SPACE | | | | | | | | • | | | | | | SPACE 6 | | |
| 7 | SPACE | | | | - | | • | | | | | | | | SPACE 8 | | |
| 9 | SPACE | | | | - | | | • | | | | | | | SPACE 10 | | |
| 11 | SPACE | | | | - | | | | - | | | | | | SPACE 12 | | |
| 13 | SPACE | | | | + | - | - | | | | | | | | SPACE 14 | | |
| 15 | SPACE | | | | + | | - | - | | | | | | | SPACE 16 | | |
| 17 | SPACE | | | | + | | | | - | | | | | | SPACE 18 | | |
| 21 | SPACE | | | | | | - | • | | | | | | | SPACE 22 | | |
| 23 | SPACE | | | | - | <u> </u> | | - | • | | | | | | SPACE 24 | | |
| 25 | SPACE | | | | | | • | | F | | | | | | SPACE 26 | | |
| 27 | SPACE | | | | + | | - | • | | | | | | | SPACE 28 | | |
| 29 | SPACE | | | | | | | - | • | | | | | | SPACE 30 | | |
| 31 | SPACE | | | | | | • | | - | | | | | | SPACE 32 | | |
| 33 | SPACE | | | | | | - | • | | | | | | | SPACE 34 | | |
| 35 | SPACE | | | | + | | | | • | | | | | | SPACE 36 | | |
| 37 | SPACE | | | | | | • | | | | | | | | SPACE 38 | | |
| 39 | SPACE | | | | | | | • | | | | | | | SPACE 40 | | |
| 41 | SPACE | | | | | | | | • | | | | | | SPACE 42 | | |
| SUB | TOTAL: | 0 | 0 | 0 | | | | | | | | 0 | 0 | 0 | SUBTOTAL | | |
| TOT | AL VOLT-AMPERES/PHASE: | ΦA = | 0 | | φ | в = | 0 | | | | | ΦC = | 0 | | | | |
| тот | AL PANEL VOLT-AMPERES: | 0 | | | | | | | | | | CONNECT | ED AMPS: | 0 | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | AIC: | 42KAIC (FIELD VERIFY) | | |
| VOL | TAGE: 208Y/120 | V, 3Φ, 4W | | | | | | | | | | | | MAIN: | MLÓ | | |
| BUS | : | 100A | | | MC | JUN | ITIN | IG: | SUF | RFA | CE | | | LOCATION: | ELEC RM | | |
| μo | | VO | LT-AMPEF | RES | C | В | | BUS | 3 | С | В | VO | LT-AMPEF | RES | | | |
| ΥSΣ | LOAD DESCRIPTION | ФА | ΦВ | ФС | Т | Р | Α | В | С | Т | Р | ФА | ΦВ | ФС | LOAD DESCRIPTION S | | |
| 1 | EXT BLDG LTG | 400 | | | 20 | 1 | • | | | 20 | 1 | 350 | | | REST/POOL/STOR LTG 2 | | |
| 3 | SPARE | | | | 20 | 1 | | ٠ | | 20 | 1 | | | | SPARE 4 | | |
| 5 | SPARE | | | | 20 | 1 | | | ٠ | 20 | 1 | | | | SPARE 6 | | |
| 7 | SPACE | | | | | | • | | | | | | | | SPACE 8 | | |
| 9 | SPACE | | | | | | | ٠ | | | | | | | SPACE 10 | | |
| 11 | SPACE | | | | | | | | • | | | | | | SPACE 12 | | |
| 13 | EXTERIOR SITE LTG | 500 | | | 20 | 1 | ٠ | | | 20 | 1 | | | | SPARE 14 | | |
| 15 | EXTERIOR SITE LTG | | 500 | | 20 | 1 | | • | | 20 | 1 | | | | SPARE 16 | | |
| 17 | EXTERIOR SITE LTG | | | 500 | 20 | 1 | | | ٠ | 20 | 1 | | | | SPARE 18 | | |
| SUB | TOTAL: | 900 | 500 | 500 | | | | | | | | 350 | 0 | 0 | SUBTOTAL | | |
| TOT | AL VOLT-AMPERES/PHASE: | ΦA = | 1,250 | | Φ | B = | 500 |) | | | | ΦC = | 500 | | | | |
| TOT | AL PANEL VOLT-AMPERES: | 2,250 | | | | | | | | | | CONNECT | ED AMPS: | 6 | | | |
| | | | | | | | | | | | | | | 1 | | | |
| | | | | | | | | R | | | | | | AIC: | 42KAIC (FIELD VERIFY) | | |
| VUL | TAGE: 208Y/120 | ν, 3Ψ, 4W | | | N 40 | | | | | | | | | | | | |
| BOS | | | | | | | | | 301 | | | | | | | | |
| R S | LOAD DESCRIPTION | | | | + | ,D P | Δ | | , [| | P | vu ه۵ | | <u></u> | LOAD DESCRIPTION [동일 | | |
| 1 | RESTROOM RECEPS | 260 | ΨD | Ψ0 | 20 | | | | | 20 | | 260 | 40 | | | | |
| 3 | EXT BATH RECED | 300 | 180 | | 20 | 1 | | | - | 20 | 1 | 500 | 540 | | | | |
| 5 | | | 100 | 180 | 20 | 1 | | F | • | 20 | 1 | | 0-0 | 180 | | | |
| 7 | WATER HEATER RECEP | 180 | | | 20 | 1 | • | | F | 20 | 1 | | | | SPARE 2 | | |
| 9 | | 100 | 400 | | 20 | 1 | Ē | • | | 20 | 1 | | | | SPARE 10 | | |
| 11 | SPARE | | 100 | | 20 | 1 | | ۲, | • | 20 | 1 | | | | SPARE 12 | | |
| 13 | SPARE | | | | 20 | 1 | • | | - | 20 | 1 | | | | SPARE 14 | | |
| 15 | SPARE | | | | 20 | 1 | É | • | | 20 | 1 | | | | SPARE 16 | | |
| 17 | SPARE | | | | 20 | 1 | | | • | 20 | 1 | | | | SPARE 18 | | |
| 19 | SPACE | | | | 1 | É | • | | - | | | | | | SPACE 20 | | |
| 21 | SPACE | | | | + | | ۲́ | • | | | | | | | SPACE 22 | | |
| 23 | SPACE | | | | + | | | — | • | | | | | | SPACE 24 | | |
| 25 | PHONE BACK RECEP | 360 | | | 20 | 1 | • | | | 20 | 1 | 180 | | | LIGHTING CTRL 26 | | |
| 27 | CABLE BACK RECEP | | 360 | | 20 | 1 | <u> </u> | • | | 20 | 1 | | 200 | | IRRIGATION CTRL 28 | | |
| 29 | FIRE ALARM PANEL/BELL | | | 500 | 20 | 1 | | | ٠ | 20 | 1 | | | 1,080 | SERVICE RECEP 30 | | |
| SUB | TOTAL: | 900 | 940 | 680 | | | • | | | | | 540 | 740 | 1,260 | SUBTOTAL | | |
| TOT | AL VOLT-AMPERES/PHASE: | ΦA = | 1,440 | | φ | в = | 1,6 | 80 | | | L | ΦC = | 1,940 | | | | |
| тот | AL PANEL VOLT-AMPERES: | 5.060 | | | | | | | | | | CONNECT | ED AMPS: | 14 | | | |

BUILDING PANEL SCHEDULES

TOTAL PANEL VOLT-AMPERES: 13,312

*POOL EQUIPMENT AND DESIGN SELECTION IS A DEFERRED SUBMITTAL. PANEL SCHEDULE FOR POOL EQUIPMENT SHALL BE PROVIDED BY OTHERS.

CONNECTED AMPS: 37

| AVAILABLE FALLET CALCULATION - SWIM CLUB | | R | FV | Р | BP |
|--|--------|--------|------------|--------|--------|
| | | | L V | 10.6 | 450.6 |
| APPROXIMATE DISTANCE FROM SOURCE TO EACH PANEL | 5π. | 5π. | 5π. | 40 π. | 152 π. |
| STARTING AFC VALUE | 42,000 | 42,000 | 42,000 | 42,000 | 42,000 |
| VOLTAGE (V) | 208 | 208 | 208 | 208 | 208 |
| WIRE TYPE | AL | AL | AL | AL | CU |
| WIRE SIZE | 2 | 2 | 1/0 | 3/0 | 1/0 |
| WIRE CONSTANT | 3713 | 3713 | 5777 | 8826 | 9317 |
| APPROXIMATE AFC AT PANEL | 28,553 | 28,553 | 32,241 | 16,248 | 6,263 |
| EQUIPMENT AIC RATING | 42KAIC | 42KAIC | 42KAIC | 22KAIC | 10KAIC |

AFC/AIC CALCULATIONS

THE INTERRUPTING RATING OF ALL EQUIPMENT IS BASED ON WORST-CASE UTILITY FAULT CONTRIBUTION. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL AFC VALUES. ANY DEVIATIONS FROM THE CONSTRUCTION DRAWINGS REQUIRES APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO PURCHASING EQUIPMENT. CONTRACTOR SHALL PROVIDE UPDATED CALCULATIONS BASED ON FIELD CONDITIONS AND FINAL UTILITY CONTRIBUTION VALUES WHICH SHALL BE USED TO MARK THE EQUIPMENT IN THE FIELD PER CODE. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THAT GIVEN BY THE SERVING UTILITY.

| | • | - | | | - | | - | - | | - | • | - | |
|--------------------------------|---------|---------|-------|---------|------|--------------|-----------|------|------|---------|-----------|----------|--------|
| | CIRCUIT | VOLTAGE | | CURRENT | DE | LENGTH IN FT | | WIRE | WIRE | CONDUIT | 70/1000ET | VOLTAGE | |
| LOAD | TYPE | (V) | FRASE | (A) | FF | (ONE-WAY) | WIRE SIZE | TYPE | SETS | TYPE | 2e/1000F1 | DROP (V) | % DRUP |
| | | | | | | | | | | | | | |
| MSB/M TO PANEL L | FEEDER | 208 | 3PH | 42 | 0.85 | 5 | 2 | AL | 1 | STEEL | 0.3 | 0.11 | 0.05% |
| PANEL L TO FURTHEST INT LIGHT | BRANCH | 120 | 1PH | 5 | 0.85 | 60 | 12 | CU | 1 | STEEL | 1.7 | 1.02 | 0.85% |
| | | | | | | | | | | | | | |
| MSB/M TO PANEL R | FEEDER | 208 | 3PH | 42 | 0.85 | 5 | 2 | AL | 1 | STEEL | 0.3 | 0.11 | 0.05% |
| PANEL R TO FURTHEST OUTLET | BRANCH | 120 | 1PH | 3 | 0.85 | 55 | 12 | CU | 1 | STEEL | 1.7 | 0.56 | 0.47% |
| | | | | | | | | | | | | | |
| MSB/M TO PANEL EV | FEEDER | 208 | 3PH | 80 | 0.85 | 5 | 1/0 | AL | 1 | STEEL | 0.2 | 0.14 | 0.07% |
| PANEL R TO FURTHEST OUTLET | BRANCH | 208 | 1PH | 32 | 0.85 | 20 | 8 | CU | 1 | PVC | 0.69 | 0.88 | 0.42% |
| | | | | | | | | | | | | | |
| MSB/M TO PANEL P | FEEDER | 208 | 3PH | 120 | 0.85 | 40 | 3/0 | AL | 1 | STEEL | 0.14 | 1.16 | 0.56% |
| | | | | | | | | | | | | | |
| MSB/M TO PANEL BP (OFF BLDG) | FEEDER | 208 | 3PH | 120 | 0.85 | 152 | 1/0 | CU | 1 | PVC | 0.13 | 4.11 | 1.97% |
| PANEL BP TO FURTHEST INT LIGHT | BRANCH | 120 | 1PH | 5 | 0.85 | 65 | 12 | CU | 1 | STEEL | 1.7 | 1.11 | 0.92% |
| PANEL BP TO FURTHEST OUTLET | BRANCH | 120 | 1PH | 6 | 0.85 | 45 | 12 | CU | 1 | STEEL | 1.7 | 0.92 | 0.77% |
| PANEL BP TO FURTHEST MECH UNIT | BRANCH | 208 | 3PH | 42 | 0.85 | 45 | 4 | CU | 1 | STEEL | 0.3 | 0.98 | 0.47% |
| | | | | | | | | | | | | | |

VOLTAGE DROP CALCULATIONS

¹ VOLTAGE DROP IS BASED ON FURTHEST CIRCUIT FOR EACH LOAD TYPE. COMPLIANCE: ALL FEEDERS PLUS BRANCH CIRCUIT DO NOT EXCEED THE ALLOWED 5% TOTAL.

1.1 DESIGN CRITERIA

- I. GENERAL PROJECT INFORMATION: 1.1. PROJECT SHALL CONFORM TO THE 2022 CEC,2022 CEnC,2022 CGBC REFERENCED STANDARDS, AND APPLICABLE LOCAL BUILDING DEPARTMENT STANDARDS.
- 1.2. DESIGN CRITERIA ARE AS FOLLOWS: DESIGN VALUES
 DESIGN
 VALUES

 SITE POWER
 3-PHASE 120/208V-3\$,4W

 SERVING UTILITY
 SDG\$E

 DRY UTILITY
 SDG\$E

1.2 GENERAL NOTES

- I. SCOPE: 1.1. THE PROJECT DOCUMENTS MAY NOT BE USED IN A LOCATION OTHER THAN THAT DESIGNATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. 1.2. THIS IS A "BUILDER'S SET" PRODUCED SOLELY FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR. 1.3. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY. THEY ARE NOT EXTENSIVELY DETAILED NOR ARE COMPLETE SPECIFICATIONS PROVIDED. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEWHERE WITHIN THE PLAN SET. FOR ITEMS, METHODS AND/OR MATERIALS NOT SPECIFIED WITHIN THE SET, THE MIN REQUIREMENT OF THE ADDITION FOR THE SAME NATURE AS SHOWN FOR SAME OR SPECIFIED WITHIN THE SET, THE MIN REQUIREMENT OF
- THE APPLICABLE CODE SHALL GOVERN. 1.4. THE ENGINEER PROVIDES NO WARRANTY OR GUARANTEE ON THE FINAL PROJECT, NOR DUTY TO ANY PERSON OR ENTITY BEYOND THE AFOREMENTIONED LIMITED INFORMATION OF THESE PLANS.
- 2. CONTRACTOR REQUIREMENTS: 2.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- 2.2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC.
- 2.3. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL.
- 2.4. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT, UNTIL CONFLICT IS RESOLVED BY THE AFFECTED PARTIES.
- 2.5. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE ELECTRICAL ENGINEER. 2.6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OR ARCHITECT FOR ANY REQUIRED DIMENSIONS NOT SHOWN. DRAWINGS & DETAILS WITHIN THIS SET SHALL NOT BE SCALED FOR ANY PURPOSE.
- 2.7. THE GENERAL CONTRACTOR AND ITS SUB-CONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS, SHOP DRAWINGS THAT ARE SUBMITTED TO THE ENGINEER OF RECORD FOR ITS REVIEW DO NOT CONSTITUTE "IN WRITING". CHANGES TO THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS BECOME THE RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES.

1.3 TYPICAL ABBREVIATIONS

| ADA AF AFF | AMERICAN DISABILITIES ACT AMP FRAME ABOVE FINISHED FLOOR AIR HANDUNC UNIT | FWE G/GRD GEN | FURNISHED WITH EQUIPMENT GROUND GENERATOR GENERATOR | N/A I NC I NEC I |
|--------------------|--|----------------------|--|---|
| AIC AL | AMPERE INTERRUPTING CURRENT ALUMINUM | GFP | INTERRUPTER GROUND FAULT PROTECTION | NFPA |
| AP AFCI | ACCESS PANEL ARC FAULT INTERRUPTER | | HEATING, AIR CONDITIONING & REFRIGERATION TYPE | NO I NTS I |
| AMP, A ARCH | AMPERE ARCHITECTURAL | HH HOA | HANDHOLE HAND-OFF-AUTO | OCPD |
| AT ATS | AMP TRIP AUTOMATIC TRANSFER SWITCH | HP HPS | HORSE POWER HIGH PRESSURE SODIUM | P I PB I |
| AUX AWG BATT | AUXILIART AMERICAN WIRE GAUGE BATTERIES | HVAC | CONDITIONING | PC I PH/ I |
| BD BKR | BUS DUCT BREAKER | HZ IG JB/J-BOX | HERIZ ISOLATED GROUND JUNCTION BOX | PNL I PWR I |
| BLDG BP C | BUILDING BUILDING PANEL CONDUIT | KCMIL KV | KIL-CIRCULAR MILS KILOVOLT | RFF I |
| СВ ССТ | CIRCUIT BREAKER CIRCUIT | KVA | KILOVOLT-AMPERES (APPARENT POWER) | RPM I SE |
| CCTV CEC | CLOSED CIRCUIT TELEVISION CALIFORNIA ELECTRIC CODE CEUING | KW | (REACTIVE POWER) KILOWATT (REAL POWER) | SH SP |
| CP CKT | CONTROL PANEL CIRCUIT | KWH LCP | KILOWATT HOUR LIGHTING CONTROL PANEL | SPD ST |
| CU | COPPER DELTA CONNECTED DIPECT CURRENT | LPS LSIG | LOW PRESSURE SODIUM LONG, SHORT, INSTANTANEOUS, GROUND | SW SWBD |
| DEG DIST | DEGREE DISTRIBUTION | LTG LV | LIGHTING LOW VOLTAGE | SYM SYS |
| DPDT DWG D/M | DOUBLE POLE, DOUBLE THROW DRAWING DISULMASUER | M/DM | UTILITY METER OR DIGITIAL METER | TELCOM |
| (E) EC | EXISTING ELECTRICAL CONTRACTOR | MCA | MINUMUM CIRCUIT AMPACITY | TYP U/G I |
| EF EG ELEC | EXHAUST FAN EQUIPMENT GROUND | MCB MCC | MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER | UL UON U |
| ELEV EO | ELEVATOR ELECTRICALLY OPERATED | MECH MH | MECHANICAL MAN HOLE OR METAL HALIDE | |
| EP EPO | EXPLOSION PROOF EMERGENCY POWER OFF EQUIDMENT | MIN MLO | MINIMUM MAIN LUGS ONLY | V VA |
| F (F) | FUSIBLE FUTURE | MO MOCP | MANUALLY OPERATED MAXIMUM OVERCURRENT CIRCUIT | VFD VS |
| FACP FBO | FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS | MS MTS | MOTION SENSOR MANUAL TRANSFER SWITCH | V/ /HZ |
| FLA FSD | FULL LOAD AMPS FIRE SMOKE DAMPER | MV MW | MEDIUM VOLTAGE MICROWAVE | MAP I MP I XEMR |
| FVNR | FULL VOLTAGE NON REVERSING | | NEUIKAL | XFR |

1.4 GENERAL ELECTRICAL NOTES

FEEDER FULL LOAD AMPS FIRE SMOKE DAMPER FULL VOLTAGE NON REVERSING FULL VOLTAGE REVERSING

A. LAYOUTS ARE A DIAGRAMMATIC REPRESENTATION OF FIXTURE, SWITCHING AND EQUIPMENT LOCATIONS IN COMPLIANCE WITH

MS MTS MV N N (N)

NEW

- CODE REQUIREMENTS. ACTUAL INSTALLATION MAY VARY DUE TO AS-BUILT CONDITIONS AND FIELD COORDINATION BETWEEN ALL DISCIPLINE CONTRACTORS AS REQUIRED. B. THIS PROJECT WILL BE SOLAR STANDARD AND IS ACCOUNTED FOR IN ELECTRICAL DESIGN. REFER TO SOLAR PLANS (BY
- OTHERS) AND COORDINATE TO VERIFY SOLAR REQUIREMENTS PRIOR TO INSTALLATION. REFERENCE ARCHITECTURAL PLANS FOR SOLAR PANEL LAYOUTS.
- C. COORDINATE WITH LOCAL UTILITY COMPANY FOR AIC VALUES. LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION. D. REFER TO DRY UTILITY PLANS FOR ON-SITE CIRCUIT AND ROUTING/TRENCH INFORMATION TO SITE FEATURES.
- E. ALL FIRE WALL PENETRATIONS SHALL BE FIRE SEALED WITH APPROVED FIRE SEALANT. CONTRACTOR SHALL MAINTAIN FIRE RATING OF WALL AFTER INSTALLATION
- F. ALL ELECTRICAL CLOSETS/ROOMS WITH SERVICE ENTRANCE EQUIPMENT AND/OR METERS SHALL BE LOCKED WITH UTILITY APPROVED LOCKSET
- G. CONTRACTOR SHALL CUT & PATCH CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. H. CONTRACTOR IS RESPONSIBLE FOR FINAL ELECTRICAL CLOSET/ROOM LAYOUTS. CONTRACTOR SHALL ENSURE ALL EQUIPMENT FITS IN THE ALLOCATED SPACE PRIOR TO ORDERING EQUIPMENT.
- I. CONTRACTOR SHALL USE A TORQUE WRENCH TO TIGHTEN ALL LUGS/TERMINALS PER MANUFACTURERS SPECIFICATIONS. CONTRACTOR SHALL TIGHTEN STRANDED CONDUCTORS CAREFULLY TO ENSURE CONDUCTIVITY REMAINS BETWEEN THE LUG AND CONDUCTOR.
- J. EXTERIOR ELECTRICAL EQUIPMENT AND METERING CABINETS NEAR DRIVEWAYS SHALL BE PROTECTED VIA BOLLARDS OR OTHER MEANS OF PROTECTION FROM VEHICULAR TRAFFIC.
- K. EXTERIOR FLOOR STANDING EQUIPMENT SHALL HAVE A CONCRETE EQUIPMENT PAD TO PREVENT INGRESS OF WATER. COORDINATE PAD REQUIREMENTS WITH ARCHITECT. L. EQUIPMENT DOORS SHALL NOT IMPEDE THE ENTRY TO OR EGRESS FROM THE WORKING SPACE.
- M. ALL PRESSURE CONNECTORS AND DEVICES FOR SPLICES AND TAPS INSTALLED ON SERVICE CONDUCTORS ARE TO BE LISTED AND MARKED AS "SUITABLE FOR USE ON THE LINE SIDE OF THE SERVICE EQUIPMENT."
- N. BARRIERS SHALL BE PROVIDED FOR ALL SERVICE EQUIPMENT SUCH THAT NO UNINSULATED, UNGROUNDED SERVICE BUSBAR OR SERVICE TERMINAL IS EXPOSED WHILE SERVICING.

1.5 ELECTRICAL EQUIPMENT NOTES

ELECTRICAL SWITCHGEAR/SWITCHBOARD/MCC:

- A. MINIMUM AVAILABLE FAULT CURRENT (AFC) SHALL BE LEGIBLY MARKED IN THE FIELD ON ALL SERVICE EQUIPMENT (IN OTHER THAN DWELLING UNITS), AND SHALL INCLUDE DATE THE AFC CALCULATION WAS PERFORMED. PROVIDE ALL SERVICE EQUIPMENT RATED EQUAL OR GREATER THAN THE AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT.
- B. ARC-FLASH WARNING LABEL SHALL BE FIELD MARKED ON ALL EQUIPMENT AND METER SOCKETS VISIBLY AND LEGIBLY, WARNING QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, IN COMPLIANCE WITH CEC 110.16.
- C. DEPTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT SHALL BE A MINIMUM OF 36", PER NEC 110.26(A)(1).
- D. WIDTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT SHALL BE A MINIMUM OF 30", PER NEC 110.26(A)(2). E. HEIGHT OF WORKING SPACE FOR ELECTRICAL EQUIPMENT SHALL BE A MINIMUM OF 6'-6" FROM FINISH FLOOR OR THE HEIGHT OF THE EQUIPMENT, WHICHEVER IS GREATER, PER NEC 110.26(A)(3). F. DEDICATED ELECTRICAL SPACE FOR ELECTRICAL EQUIPMENT SHALL BE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT
- AND EXTEND FROM FLOOR TO 6' ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. THERE SHALL BE NO FOREIGN OBJECTS INSTALLED WITHIN THIS SPACE. G. FOR SERVICE EQUIPMENT RATED 1200A OR MORE, PROVIDE ENERGY REDUCTION MAINTENANCE SWITCH FOR MAIN BREAKER TO COMPLY WITH ARC FLASH REDUCTION REQUIREMENT. OTHER MEANS OF ARC FLASH REDUCTION NOTED IN NEC/CEC SHALL BE
- ALLOWED WITH APPROVAL FROM ENGINEER OF RECORD. H. ALL EQUIPMENT SHALL BE UL LISTED AND BEAR THE UL LABEL OR LISTED/CERTIFIED BY NRTL I. MAIN BREAKER SHALL BE PERMANENTLY MARKED AS MAIN (SERVICE DISCONNECT) FOR SERVICE SHUT-OFF. IF AN
- ADDITIONAL SERVICE IS AVAILABLE IN A BUILDING OR STRUCTURE, EQUIPMENT SHALL HAVE AN ADDITIONAL LABEL WITH LOCATION OF OTHER SERVICE. J. EQUIPMENT INSTALLED OUTDOORS OR IN A DAMP ENVIRONMENT SHALL BE NEMA 3R.
- K. ALL EQUIPMENT SHALL HAVE A LEVELED STANDING WORK SURFACE CONSTRUCTED OF CONCRETE, ASPHALT, ETC. SAND OR GRASS SHALL NOT BE CONSIDERED A LEVELED SURFACE UNLESS APPROVED BY AHJ. WORKING SURFACE SHALL COMPLY WITH CODE AND UTILITY REQUIREMENTS. L. EQUIPMENT ENCLOSURES SHALL NOT BE USED AS A WIREWAY TO ROUTE CONDUCTORS. CONTRACTOR SHALL PROVIDE A
- SEPARATE WIRE GUTTER OR SPLICE BOX WHERE REQUIRED. M. SERVICE EQUIPMENT SHALL MEET ALL EUSERC REQUIREMENTS AS DIRECTED BY THE LOCAL UTILITY.
- N. LARGE STANDING EQUIPMENT SUCH AS SWITCHBOARDS SHALL BE SEISMICALLY SUPPORTED. CONTRACTOR SHALL PROVIDE ANCHORING TO FLOOR OR STRUCTURE PER MANUFACTURER AND BUILDING CODE GUIDELINES.
- O. ALL ELECTRICAL EQUIPMENT COMPONENTS SHALL BE DUAL RATED FOR CU/AL CONDUCTORS. P. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- Q. ALL BUSSING SHALL BE COPPER OR ALUMINUM IN CONSTRUCTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE RATED FOR FULL CAPACITY UNLESS APPROVED OTHERWISE. R. SERVICE EQUIPMENT SHALL BE SERVICE ENTRANCE RATED.
- PANELS AND CIRCUITS:
- S. PROVIDE NEW PRINTED DIRECTORIES INDICATING CIRCUIT DESCRIPTION AND BREAKER SIZING FOR ALL PANELBOARDS. T. PROVIDE PHENOLIC PLASTIC NAMEPLATES FOR ALL EQUIPMENT. PLATES SHALL BE BLACK WITH WHITE LETTERING. PLATES SHALL INCLUDE: I. PANEL NAME
- 2. VOLTAGE, PHASE, WIRES 3. AMPERAGE (MCB OR MLO) 4. FED BY DESIGNATION
- U. AMPS INDICATED IN PANEL SCHEDULE REFLECT CONNECTED LOAD. REFER TO FEEDER CALCULATIONS FOR DEMAND LOAD RESULTS.

V. PANELBOARDS SHALL HAVE ARC FLASH AND AVAILABLE FAULT CURRENT LABEL WITH COMPLETION DATE. FIXTURES

P. INSTALL SWITCHES, RECEPTACLES, ETC. AT FOLLOWING HEIGHTS (UNLESS OTHERWISE NOTED) MEASURED TO BOTTOM ON SWITCH/RECEPTACLE:

| OUTLETS, PHONE TELEVISION | +14" | AFF |
|---------------------------------------|------|-----|
| OUTLETS ABOVE BATH COUNTERTOP | +40" | AFF |
| OUTLETS ABOVE FIXED CABINETRY | +44" | AFF |
| OUTLETS ON FIXED CABINETRY | +32" | AFF |
| SWITCHES | +48" | AFF |
| THERMOSTAT/ALARM KEYPAD | +58" | AFF |
| DOORBELL CHIME | +84" | AFF |
| RECEPTACLE OUTLETS SHALL NOT BE INSTA | LLED | IN |

- N FACE UP POSITION ON A WORK SURFACE. Q. RECESSED LUMINAIRES NOT LISTED FOR USE IN FIRE RESISTANT RATED CONSTRUCTION SHALL NOT BE INSTALLED IN FIRE RESISTIVE RATED CONSTRUCTION UNLESS COMPLIANCE WITH CONDITIONS NOTED UNDER NEC 410.116.
- R. LUMINAIRES SHALL NOT BE USED TO ACCESS OTHER COMPONENTS (JUNCTION BOXES, CONDUIT BODIES, PULL BOXES, ETC) THAT REQUIRE ACCESS UNLESS ITS INTEGRAL PART OF FIXTURE.
- S. ALL RECESSED CAN LIGHTS IN AN INSULTED CEILING SHALL BE IC RATED. T. ALL JUNCTION BOXES SUPPORTING PENDANTS AND FANS SHALL BE SUITABLE FOR INSTALL AND CLEARLY LABELED FOR WEIGHT CAPACITY.

#2 CU SYSTEM BONDING JUMPER

MIN #4 CU GROUNDING ELECTRODE CONDUCTOR, SHALL NOT EXTEND TO OTHER ELECTRODE TYPES THAT _____ REQUIRE A LARGER GEC PER CODE. REFERENCE NEC 250.66(B)

> (2) #6 CU GROUNDS TO BUILDING TELEPHONE & CABLE BACKBOARDS VIA AN INTERSYSTEM TERMINATION DEVICE TERMINATION DEVICE UFER GROUND - 20' LONG, MINIMUM #4 BARE CU

#2 CU BOND TO COLD WATER PIPE, GAS METAL PIPE ¢ STRUCTURAL

| CTORS | |
|---|--------------------------------------|
| ICTOR SIZES | |
| AL IN EACH | |
| AL IN EACH | |
| AL IN EACH | |
| IN EACH | |
| IN EACH | |
| IN EACH | |
| | |
| NDUCTOF | RS |
| WIRE SIZE I | GROUND SIZE ² |
| #12 | #12 |
| #1 <i>0</i> | #10 |
| #1 <i>0</i> | #10 |
| #1 <i>0</i> | #10 |
| #8 | #10 |
| #6 | #10 |
| #6 | #1 <i>0</i> |
| #4 | #10 |
| #4 | #8 |
| #3 | #8 |
| #2 | #8 |
| #1 | #8 |
| #1 | #6 |
| #1 | #6 |
| 16. CONDUCTO OWER ARE SIZ AN 100A ARE | RS ARE ALL ZED FROM SIZED FROM |
| ENT GROUNDI | NG |

FOR JURISDICTION USE:

NOTE: ALL RECEPTACLES AND LIGHTING LOCATED IN UTILITY CLOSET TO BE WIRED TO THE BUILDING PANEL.

| | | | | | | | | | | | | | | GENERAL CONTROL REQUIREMENTS |
|-------------|---|----------|-------|-----|----|---------|------|--------|----------|-----------------|-------------------------------------|-------------------|---------------------------|--|
| | | | | | | | | | | | | | | 1. BUILDING TIMECLOCK SHALL BE SET PER |
| | | | | | | | | | | | | | COMMENTS | 2. ALL CONTROL DEVICES SHALL BE LOW A GATEWAY, BRIDGE, OR POWER PACK DEV |
| TIXTURE TAG | DESCRIPTION | | | | | VULIAGE | | | | MANOI ACTORER | CATALOG # | | COMMENTS | 3. PROVIDE CONNECTION FROM HEAD END L |
| D1 | 4" LED RECESSED DOWNLIGHT, SLOPED CEILING INSTALL, WHITE | 900 LM | 3000K | LED | 90 | 120V | 11 | 0-10V | RECESSED | COOPER LIGHTING | RLS4-09-9FS-1E-WH-DM-R-HL4RSMF | BUILDERS CHOICE | | 4. ALL EMERGENCY FIXTURES SHALL OPERA DEVICE. DURING AN EMERGENCY SITUATI PROVIDE SEPARATE EMERGENCY POWER |
| D2 | 4" LED RECESSED DOWNLIGHT, SLOPED | 900 I M | 3000K | | 90 | 120\/ | 11 | 0-10\/ | RECESSED | | | | | 5. WHEN SPACE IS UNOCCUPIED, LIGHTS SH TRIGGERED, LIGHTS SHALL TURN BACK ADDITIONAL LIMITS. |
| | CEILING INSTALL, WHITE (DAMP LISTED) | | 30001 | | | 1200 | | 0-100 | | | | | | 6. DUAL TECHNOLOGY AND ULTRASONIC OC AVOID FALSE TRIGGERING. COORDINATE |
| | | | | | | | | | | | | | | 7. PHOTOCELLS SHALL BE PLACED 6' AWAY |
| D3 | 6" LED RECESSED DOWNLIGHT, WHITE | 1400 LM | 3000K | LED | 90 | MVOLT | 16 | 0-10V | RECESSED | LITHONIA | EC22LED-G4-14LM-30K-90CRI-MVOLT ZT1 | 0 BUILDERS CHOICE | | 8. LIGHT FIXTURES WITH LOWER CASE LET SENSORS. |
| D4 | 6" LED RECESSED DOWNLIGHT, WHITE | 1400 LM | 3000K | LED | 90 | MVOLT | 16 | 0-10V | RECESSED | LITHONIA | EC22LED-G4-14LM-30K-90CRI-MVOLT ZT1 | 0 BUILDERS CHOICE | | THE SPACE. |
| | (DAMP LISTED) | | | | | | | | | | | | | OFFICES/LOUNGE/KITCHEN/FITNESS |
| | | | | | | | | | | | | | | EACH SPACE SHALL HAVE A MANUAL ON |
| D5 | DOWNLIGHT (WET/DAMP LISTED) | 1000 LM | 3000K | LED | 90 | UNV | 13 | 0-10V | SURFACE | JUNO LIGHTING | JSFMTGPLT | BUILDERS CHOICE | | · OCCUPANCY SENSOR SHALL AUTOMATICA |
| | | | | | | | | | | | | | INTERIOR DESIGNER AND | ELECTRICAL/MECHANICAL CLOSETS |
| | | | | | | | | | | | | | | CLOSETS SHALL HAVE A MANUAL ON/OF |
| P1 | 8' LINEAR ARCHITECTURAL PENDANT | 6000 L M | 3000K | LED | 80 | 120V | 54 | 0-10V | | FOCAL POINT | _ | | | LIGHTS SHALL NOT HAVE ANY AUTOMAT |
| | | | | 220 | | 1200 | | | | | | | LENGTH FIXTURES SHALL NOT | |
| | | | | | | | | | | | | | BE MOUNTED BELOW 8' AFE | RESTROOMS |
| | | | | | | | | | | | | | | · RESTROOMS SHALL HAVE MANUAL ON/OF |
| | | | | | | | | | | | | | | · COORDINATE WITH OWNER IF WALL SWIT |
| P2 | ROUND ARCHITECTURAL PENDANT, DAMP | 1000 L M | 3000K | IED | 80 | 1201/ | 20 | 0-101/ | | _ | _ | | | · COORDINATE WITH OWNER IF DIMMING IS |
| 1 2 | LISTED | | | | | 1200 | 20 | 0-100 | | | | | | · OCCUPANCY SENSOR SHALL AUTOMATICA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | + + | | | | | STAIRS |
| 54 | | 2000 L M | 3500K | | 0 | | 30 | 0.101/ | | | ZL1D-L48-SMR-3000LM-FST-MVOLT-35K- | | | · STAIRWELLS SHALL HAVE A MANUAL ON. |
| 54 | | | 3300K | LED | 00 | | 30 | 0-100 | SURFACE | LITHONIA | 80CRI-E10WLCP-WH | | | · LIGHTS SHALL BE CONTROLLED AS PAR |
| | | | | | | | | | | | | | | · DURING A TRIGGERED EVENT, LIGHTS SH |
| EW1 | LED WALL LIGHT, WET LISTED | 700 LM | 3000K | LED | 80 | 120V | 20 | 0-10V | WALL | - | - | BUILDERS CHOICE | | CORRIDORS |
| | | | | | | | | | | | | | | CORRIDORS SHALL HAVE A MANUAL ON/0 |
| | | | | | | | | | | | | | | · OCCUPANCY SENSOR SHALL AUTOMATICA |
| EW2 | WET LISTED | 700 LM | 3000K | LED | 80 | 120V | 20 | 0-10V | WALL | - | - | BUILDERS CHOICE | | FOR EGRESS CORRIDORS. COORDINATE V |
| | | | | | _ | | | | | | | | | EXTERIOR |
| | | | | | | 4001/ | 10.0 | | | | | | | · ALL EXTERIOR LIGHTING SHALL BE CONT |
| ELI | ADJ TWIN HEAD EMER W/ 90 MIN BACKUP | - | - | LED | - | 1200 | 10.6 | - | VVALL | LITHONIA | ELM6L-LIP-SDRI | BUILDERS CHOICE | | BUILDING WALL PACKS SHALL BE ON NIC BEFORE SUNRISE THE NEXT DAY. |
| EL 2 | EXTERIOR BEAM EMERGENCY EGRESS | | 3000K | | | 120\/ | 1 | | \\/ATT | | | | | |
| | LIGHT WITH 90 MIN BACKUP | | | | | 1200 | | | | | | | | |
| X1 | I ED EXIT SIGN W/ 90 MIN BATTERY BACKUP | - | _ | | _ | 1201/ | 5 | _ | S/W/P | | L QM-S-W-3-G-120V-FL N | | | |
| | | | | | | | | | | | | | | |
| | 1 | | | | I | 1 | 1 | | | | | | | |
| | | | | | | | | | | | | | | |

BUILDING LUMINAIRE SCHEDULE

| | NOT | ES |
|--|--|--|
| ULULU OF ANY ALL OWNER AND THE LOOP AND ANY REAL BE CONTRACT TO LEASE AND AND ANY ALL OWNER ANY ALL OW | PONTRE OF THE ADJUST OF THE ELECTRICAL CONTRACTOR. CONTRACTOR. CALL CARDUTS AND CABLES PER CODE. CALL CARDUTS WAIL LER INSTALLE CONCEALED UNESS SPECIFICALLY APPROVED BY THE ARCHTECT. GALVANEED FTT CONDUCT WITH COPRESSION FITTINGS SHALL BE USED FOR ALL ENTROP CONDUTS. CALL ABOVE REMULE EXTERIOR CONDUTS SHALL BE INFO OR CONDUTS INFORMET TO DAMAGE, USE OF CARDUNC, SECOND TS SHALL BE INFO OR CONDUTS INFORMET TO DAMAGE, USE OF CARDUNC, SECOND TS SHALL BE INFO OR CONDUTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SIGN" CONTRACTOR. SHALL INSTALL A HIX AND OR SIGN" CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL STUBIOTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL STUBIOTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL SHOUTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL SHOUTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL SHOUTS. CONTRACTOR. SHALL INSTALL A HIX AND OR SHALL SHOUTS. CONTRACTOR. SHALL SHOUTS. CONTRACTOR. SHALL SHALL END OWNER SHALL SHOUTS. CONTRACTOR. SHALL S | ES LIGHTING NOT PROVIDE A WIRED N-LIGHT DISTRIBUT SYSTET OR EXUMALENT THAT SHALL THE THAIN HEAD THAT SHALL GETTANIA HEAD THAT SHALL GETTANIA HEAD THAT CONCLERE SHALL GOT RESPONSE, COORDINATE READ ALL FIXTURES SUBSTITUTIONS SHALL B AND INTERIOR DESIGNER PRIOR TO CO- CONTRACTOR SHALL COMPLY WITH TI AND SHALL BE LISTED/APPROVED FOR CONTRACTOR SHALL DENITON PER MAINSTRUCTIONS. CONTRACTOR SHALL VERIFY TYPES/OL LIGHTS AND DEVICES WITH MANUFACT TO ENSURE BEST COVERAGE POR LIGH CONTRACTOR SHALL VERIFY TYPES/OL LIGHTS AND DEVICES WITH MANUFACT TO ENSURE BEST COVERAGE POR LIGH CONTRACTOR SHALL VERIFY TYPES/OL DIAGONAL-DOWN HATCH INDICATED SER FIXTURES IN LACH ZONE SHALL BE PROVI ON PLAN, DIAGONAL-UP HATCH INDICATED SER FIXTURES IN EACH ZONE SHALL BE COL DIAGONAL-DOWN HATCH INDICATED SER FIXTURES IN EACH ZONE SHALL BE COL DIAGONAL-DOWN HATCH INDICATED SER FIXTURES IN THE TRUTTOR ENTRY ACCHTECT PRIOR TO PURCHASING LIG INSTALLATION ISSUES IN THE FIELD. ALL ENTERIOR LIGHT FIXTURES AND C BE WEATHER PROOF. ALL ENTERIOR LIGHT FIXTURES AND C BE WEATHER PROOF. ALL ENTERIOR LIGHT FIXTURES AND C BE WEATHER PROOF. ALL PHOTOCELLS SHALL BE LED LU FIXTURES SPECIFIED BY THE ARCHITE DESIGNER TAKE PRECEDENCE OVER EL ALL PHOTOCELLS SHALL BE TRACED A FROM THE WINDOW PRODUCING DATUG IN ALL COUPANCY SENSORS SHALL BE DISTANCE TAY BE REDUCED FROM FAI HEAT. ALL PHOTOCELLS SHALL BE PLACED A FROM THE WINDOW PRODUCING DATUG IO CONTRACTOR AND APPLIANCE INSTALL IO CONTRACTOR SHALL DE REQUIPTENT IO ROOM FOUNT THE ARA THE EQUIPTENT IO CONTRA |
| Image: Non-State of the state of the st | EXCEPTS ICO, USE F4 CU. EACH CIRCUT SHALL HAVE A EQUIPPENT GROUNDING CONDUCTOR THAT SHALL BE PORPORTIONALLY UPSIZED DUE TO VOLTAGE DROP. | UNE-LINE NUT VERIFY SERVICE LOCATIONS & CONFOR OF THE POWER COMPANY. POWER COM CONTACTED PRIOR TO BEGINNING CONS VERIFY FOR THE INSTALLATION OF TH SERVICES & METERS. GROUND ALL EQUIPMENT & SERVICES I ARTICLE 250 OF THE NATIONAL ELECT APPLICABLE CODES, & AS INDICATED (3. E.C. SHALL VERIFY AIC CAPACITY FOR LOCAL SERVING UTILITY PRIOR TO OR DEVICES SHALL HAVE AN INTERRUPTIN THAN THAT GIVEN BY THE SERVING U' THE INTERRUPTING RATING OF ALL EG WORST-CASE UTILITY FAULT CONTRIBU COORDINATE WITH LOCAL UTILITY COM VALUES. ANY DEVIATIONS FROM THE OR REQUIRES APPROVAL FROM THE ENGIN PURCHASING EQUIPMENT. CONTRACTOR CALCULATIONS BASED ON FIELD CONDI CONTRIBUTION VALUES WHICH SHALL E EQUIPMENT IN THE FIELD PER CODE. A AN INTERRUPTING CAPACITY NOT LESS THE SERVING UTILITY. CONTRACTOR SHALL CONFIRM VOLTAGI AND BRANCH CIRCUITS. THE TOTAL PE NOT EXCEED 5% BETWEEN THE FEEDER CIRCUIT. SERIES RATED EQUIPMENT SHALL BE , IS RESPONSIBLE FOR PROVIDING BREA HAVE BEEN FULLY TESTED IN SERIES REQUIRED PROTECTION BASED ON THE EQUIPMENT AND END USE EQUIPMENT MARKED AS SERIES RATED WITH THE AVAILABLE. SOLAR DESIGN IS BY OTHERS. CONTRA- WITH SOLAR DESIGN IS BY OTHERS. CONTRA- WITH SOLAR DEAMINGS FOR SC ALL NEW BRANCH CIRCUITS SHALL BA MINTE AND A 100% RATED NEUTRAL. SH NOT BE ALLOWED. ALL NEW BRANCH CIRCUITS SHALL HAY WIRE AND A 100% RATED NEUTRAL. SH NOT BE ALLOWED. ALL NEW BRANCH CIRCUITS SHALL HAY WIRE AND A 100% RATED NEUTRAL. SH NOT BE ALLOWED. ALL 125V RECEPTACLES INSTALLED IN OUTDOORS, CRAWL SPACES, BASEMEN COUNTER SPACE), 6' WITHIN A SINK/S LAUNDRY AREAS AND INDOOR DAMP/M GFCI. PROVIDE OCCUPANCY CONTROLLED RECONSED AND PARENT |
| CY INVERTER RY BACK-UP S REQUIRED EQUIREMENTS) . MINIMUM TO BUILDING MOUNTED EXTERIOR LIGHTING EMERGENCY FIXTURES TO BUILDING MOUNTED EXTERIOR LIGHTING FIXTURES TO EXTERIOR SITE LIGHTING FIXTURES ROLLED SO THE LIGHTS ARE TURNED OFF WHEN ROLLED BY A TIME BASED SCHEDULING CONTROL | | PROVIDE OCCUPANCY CONTROLLED REAS, COBBIES, CONFERENCE ROOMS AREAS, COPY AREAS, RECEPTACLES INTH ONE CONTROLLED OUTLET AND CONTROLLED RECEPTACLES SHALL HAD DURABLE MARKING INDICATING OUTLET ALL VENDING MACHINES AND DRINKING RECEPTACLES SHALL BE GFCI. IF RECI ACCESSIBLE IN THE LOCATION INSTALL BREAKER FOR THESE CIRCUITS. ALL 125V AND 250V, 15 \$ 20 AMPERE RECEPTACLES INSTALLED IN THE AREA SECTION 406.12(1) THROUGH (7) SHALL |

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Project Address: CHULA VISTA, CALIFORNIA **DOCUMENTATION AUTHOR'S DECLARATION STAT** I certify that this Certificate of Compliance documentation Documentation Author Name: AVNE HARRIS & SLOAI Company: 2295 GATEWAY OAKS DRIVE City/State/Zip: SACRAMENTO/CA **RESPONSIBLE PERSON'S DECLARATION STATEMENT** I certify the following under penalty of perjury, under the 1. The information provided on this Certificate of Comp 2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer) 3. The energy features and performance specifications, Certificate of Compliance conform to the requirement 4. The building design features or system design feature compliance documents, worksheets, calculations, pla 5. I will ensure that a completed signed copy of this Cer to the enforcement agency for all applicable inspecti documentation the builder provides to the building of Responsible Designer Name: AVNE HARRIS & SLOAN Company : 2295 GATEWAY OAKS DRIVE, SUITE 200 City/State/Zip: SACRAMENTO/CA/95833

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Indoor Lighting

NRCC-LTI-E (Created 03/21

CERTIFICATE OF COMPLIANCE

| | | CALIFORNIA ENERGY COM | |
|---|--|---|---|
| | | | NRCC-LTI-E |
| | Report Page: | | Page 7 of 7 |
| | Date Prepared: | | 12/04/2022 |
| TEMENT | | | ? |
| ion is accurate and complete | | | |
| IEET SAMRA | Documentation Author S | Signature: | |
| AN | Signature Date: | 12/04/2022 | |
| /E, SUITE 200 | CEA/ HERS Certification | Identification (if applicable): | |
| A/95833 | Phone: | 559-916-0320 | |
| the laws of the State of Californi | a: | | |
| pliance is true and correct. | | | |
| ofessions Code to accept respon | sibility for the building d | design or system design identified on this Certific | ate of |
| s, materials, components, and m ents of Title 24, Part 1 and Part 6 res identified on this Certificate lans and specifications submitte ertificate of Compliance shall be tions. I understand that a comple owner at occupancy. | anufactured devices for of the California Code of of Compliance are consis d to the enforcement ag made available with the eted signed copy of this (| the building design or system design identified of f Regulations. stent with the information provided on other ap ency for approval with this building permit appli e building permit(s) issued for the building, and m Certificate of Compliance is required to be includ | n this plicable cation. 1ade available led with the |
| EET SAMRA | Responsible Designer Sig | gnature: | |
| AN | Date Signed: | 12/04/2022 | |

23100

559-916-0320

License:

Phone:

| Project Name: COTA VERA SWIM | 1 CLUB - POOL BLDG | Report Pa |
|----------------------------------|---|----------------|
| Project Address: CHULA VISTA, CA | LIFORNIA | Date Prep |
| 01 | 02 | |
| Area Description | Complete Building or Area Category Primary Function Area | Al Di (\ |
| RESTROOM | Restroom | |
| EQUIPMENT SPACE | Electrical, Mechanical, Telephone Rooms | |
| STORAGE | All Other Space Types | |
| | | |
| | | |
| J. ADDITIONAL LIGHTING ALLO | WANCE: AREA CATEGORY METHOD QUALIFYING LIG | HTING SYSTI |
| This Section Does Not Apply | | |
| K TAILORED METHOD GENERA | | |
| This Section Does Not Apply | | |
| | | |
| L. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED WALL DISPLAY | |
| This Section Does Not Apply | | |
| | | |
| This Section Does Not Apply | WANCE. TAILORED FLOOR AND TASK LIGHTING | |
| | | |
| N. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS | 5 |
| This Section Does Not Apply | | |
| | | |
| U. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED VERY VALUABLE MERCHANDISE | |
| Inis Section Does Not Apply | | |
| P POWER ADJUSTMENT LIGHT | ING CONTROL CREDIT (POWER ADJUSTMENT FACTO | OR (PAF)) |

STATE OF CALIFORNIA Indoor Lighting

 \bigcirc

0

March 2021

This Section Does Not Apply

| NRCC-LTI-E (Cr | reated 03/21) | | |
|---|--|--|-----------------------------|
| CERTIFICAT | E OF COMPL | IANCE | |
| Project Nar | ne: COTA | VERA SWIM CLUB - POOL BLDG | Repo |
| Project Add | ress: CHUL | A VISTA, CALIFORNIA | Date |
| Q. RATED | POWER RE | DUCTION COMPLIANCE FOR ALTERATIONS | |
| This Section | n Does Not A | pply | |
| R. 80% LIG | | WER FOR ALTERATIONS - CONTROLS EXCEPTIONS | |
| This Section | n Does Not A | pply | |
| | | | |
| S. DAYLIG | HT DESIGN | POWER ADJUSTMENT FACTOR (PAF) | |
| This Section | n Does Not A | pply | |
| | | | |
| T. DECLAR | ATION OF I | REQUIRED CERTIFICATES OF INSTALLATION | |
| Table Instru Table E. Ad <u>title24/201</u> | uctions: Selec ditional Rem 9standards/. | tions have been made based on information provided in previous t arks. These documents must be provided to the building inspector 2019_compliance_documents/Nonresidential_Documents/NRCI/ | ables of this during constr |
| YES | NO | Form/* | Title |
| ۲ | 0 | NRCI-LTI-01-E - Must be submitted for all buildings | |
| 0 | ۲ | NRCI-LTI-02-E - Must be submitted for a lighting control system, c recognized for compliance. | or for an Ener |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| CA Building E | Energy Efficie | ncy Standards - 2019 Nonresidential Compliance: http://www.energy.c | a.gov/title24/2019standards | | | |
|--|--|---|--|--|--|--|
| STATE OF CALII | FORNIA | | | | | |
| Indoor L | ighting | | | | | |
| NRCC-LTI-E (Cr | eated 03/21) | | | | | |
| CERTIFICAT | E OF COMP | LIANCE | | | | |
| Project Nan | ne: COTA | VERA SWIM CLUB - POOL BLDG | Report Page: | | | |
| Project Add | ress: CHUL | A VISTA, CALIFORNIA | Date Prepared: | | | |
| | | | | | | |
| U. DECLAR | ATION OF | REQUIRED CERTIFICATES OF ACCEPTANCE | | | | |
| Table Instru Table E. Ado Acceptance | ctions: Sele ditional Ren Test Techni | ctions have been made based on information provided in previou narks. These documents must be provided to the building inspect ician Certification Provider (ATTCP). For more information visit: <u>h</u> | <i>is tables of this document. Ij</i> or during construction and c <u>attp://www.energy.ca.gov/t</u> | | | |
| YES | NO | For | m/Title | | | |
| $oldsymbol{\circ}$ | 0 | NRCA-LTI-02-A - Must be submitted for occupancy sensors and | automatic time switch con | | | |
| 0 | ۲ | NRCA-LTI-03-A - Must be submitted for automatic daylight cor | itrols. | | | |
| \sim | O NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | | | | | |
| | | intervention demand responsive ing | nting controls. | | | |
| 0 | 0 | NRCA-LTI-05-A - Must be submitted for institutional tuning po | wer adjustment factor (PAF) | | | |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| | | | | at all Califrage |
|----------------------|--------------------|---------|-------------------|------------------|
| | | CALI | FORNIA ENERGY COM | |
| | | | | NRCC-LTI-E |
| t Page: | | | | Page 4 of 7 |
| Prepared: | | | | 12/04/2022 |
| 03 | 04 | 05 | 0 | 6 |
| Allowed | | Allowed | Additional A | llowances / |
| Density | Area | Wattage | Adjust | tment |
| (W/ft ²) | (ft ²) | (Watts) | Area Category | PAF |
| 0.65 | 680 | 442 | | |
| 0.4 | 605 | 242 | | |
| 0.4 | 340 | 136 | | |
| TOTAL: | 1,625 | 820 | See Tables J o | or P for detail |
| I | | | 1 | |
| | | | | |
| STEM | | | | ? |
| | | | | |
| | | | | 6 |
| | | | | <u></u> |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | _ |
| | | | | 2 |
| | | | | |
| | | | | () |
| | | | | 1 |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | |
| | | | | |

.ON CALIFORNIA ENERGY NRCC-LT rt Page Page 5 of Prepared: 12/04/202 document. If any selection needs to be changed, please explain why in truction and can be found online at <u>https://ww2.energy.ca.gov/</u> Field Inspector

| NO | Form/Title | | | | |
|----|---|------|------|--|--|
| | | Pass | Fail | | |
| 0 | NRCI-LTI-01-E - Must be submitted for all buildings | | | | |
| ۲ | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | | | | |
| ۲ | NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | | | | |
| ۲ | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | | | | |
| ۲ | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | | | | |

CALIFORNIA ENERGY COMM t Page Page 6 of Prepared: L2/04/202 document. If any selection needs to be changed, please explain why in truction and any with "-A" in the form name must be completed through an ergy.ca.gov/title24/attcp/providers.html Field Inspector Pass Fail ne switch controls. t factor (PAF). t factors (PAF).

| STATE OF CALIFORNIA | | | | | | | | | | | | |
|---------------------------------|--------------------------|----------------------|---------------------------|----------------------------------|--|-------------------------|-------------|--------------------------|--|-------|--------------------|-----|
| Indoor Lighti | ing | | | | | | | | | | | |
| NRCC-LTI-E (Created 0 | 3/21) | | | | | | | | | | CALIFORNIA EN | EF |
| CERTIFICATE OF C | COMPLIANCE | | | | | | | | | | | |
| This document is | used to demons | trate compliance | e with requireme | ents in <u>§110.9</u> , <u>§</u> | 11 | <u>0.12(c), §130.0,</u> | <u>§1</u> 3 | <u>30.1, §140.6,</u> and | d <u>§141.0(b)2</u> for | ' ind | loor lighting sco | рe |
| prescriptive path. | | | | | | | | | | | | |
| Project Name: | COTA VERA SW | IM CLUB - POOL | BLDG | | | Re | ро | rt Page: | | | | |
| Project Address: | CHULA VISTA, C | ALIFORNIA | | | | Da | ate | Prepared: | | | | |
| A. GENERAL INF | ORMATION | | | | | | | | | | | |
| 01 Project Loca | tion (city) | | CHULA VIST | A, CALIFORNIA | | 04 Total | Cor | nditioned Floor | Area (ft ²) | | | C |
| 02 Climate Zone | e | | | 7 | | 05 Total | Un | conditioned Floo | or Area (ft ²) | | 1 | ,6 |
| 03 Occupancy T | vpes Within Pro | piect (select all th | nat apply): | | | 06 # of St | tori | ies (Habitable Al | bove Grade) | | | 1 |
| Office | <u></u> | Retail | | Warehouse | | Hote | | Aotel | School | | | |
| Parking Ga | rage | High_Rise Res | | Relocatable | | | thc | are | Other (write | in). | | |
| | | | | Relocatable | | | | | | | 1002.00 | _ |
| B. PROJECT SCO | PE | | | | | | | | | | | |
| Table Instructions | : Include any lig | hting systems th | at are within the | e scope of the pe | ern | nit application a | nd | are demonstrati | ng compliance | usir | ng the prescriptiv | е |
| <u>§140.6</u> or <u>§141.0(</u> | <u>b)2</u> for alteratio | ns. WARNING: (| Changing the Ca | lculation Metho | d i | n this table will r | resi | ult in the deletio | n of data previo | usl | y input. If you ne | ?e |
| calculation metho | od, please open o | a new form or us | e "Save As". | | | | | | | | | |
| - | Scope | e of Work | | | | Conditioned | Sp | aces | | | Unconditioned | 3 2 |
| | | 01 | | | 02 03 | | | | 04 | | | |
| My F | Project Consists | of (check all that | t apply): | Ca | Calculation Method Area (ft ²) | | | ²) Ca | Calculation Method | | | |
| 🖌 New Lighting | s System | | | | | | | | | Ar | ea Category | |
| | | | | | | | | | | | | |
| Altered Light | ing System | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | Tot | al Area of Worl | ((ft ²) | | | | | | | 1,625 | |
| | | | | · | | | | | L. L | | | |
| C. COMPLIANCE | RESULTS | | | | | | | | | | | |
| Table Instructions | : If any cell on t | his table says "D | OES NOT COMP | LY" or "COMPLIE | ES I | with Exceptional | Со | nditions" refer t | o Table D. for g | uid | ance. | |
| | | Allowed Light | ing Power per § | 140.6(b) (Watts | s) | | | Adjusted Light | ting Power per | §14 | 0.6(a) (Watts) | |
| Lighting in | 01 | 02 | 03 | 04 | | 05 | | 06 | 07 | | 08 | Ī |
| conditioned and | | | | | 1 | | | | Adjustments | 1 | | ľ |
| unconditioned | Complete | | Area Category | Tailored | | | | Total | PAF Control | 1 | Total Adjusted | |
| he combined for | Building | Area Category | Additional | <u>§140.6(c)3</u> | = | Total Allowed | 2 | Designed | Credits | = | (Watts) | |
| compliance per | <u>§140.6(c)1</u> | <u>9140.0(C/2</u> | <u>9140.0(C)2G</u> (+) | (+) | | (Watts) | | (Watts) | <u>§140.6(a)2</u> | | *Includes | |
| §140.6(b)1. | | | (.) | | | | | | (-) | | Adjustments | |
| | (See Table I) | (See Table I) | (See Table J) | (See Table K) |] | | | (See Table F) | (See Table P) | 1 | | |
| Conditioned: | | | | | = | | ≥ | | | = | | 1 |
| Unconditioned: | | 820 | | | = | 820 | ≥ | 541 | | = | 541 | ľ |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA Indoor Lighting

Table Continued

March 2021

March 2021

March 2021

| NRCC-LTI-E (Created 03/21) | | CALIFORNIA ENER |
|---|--|-------------------|
| CERTIFICATE OF COMPLIANCE | | |
| Project Name: COTA VERA SWIM CLUB - POOL BLDG | Report Page: | |
| Project Address: CHULA VISTA, CALIFORNIA | Date Prepared: | |
| | | |
| Contre | ols Compliance (See Table H for Details) | COMPLIES with Exc |
| Rated Power Reducti | on Compliance (See Table Q for Details) | Not Ap |
| | | |
| D. EXCEPTIONAL CONDITIONS | | |
| This table is auto-filled with uneditable comments because of selections made or data entered | in tables throughout the form. | |

Table H Indoor Lighting Controls Permit Applicant Notes: RESTROOM: RESTROOMS WITH AUTH CONTROL

EQUIPMENT SPACE: AUTO OFF MAY BE HAZARD AND LESS THAN .5W/SQFT

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. SITE LIGHTING INCLUDING THE BUILDING FACADE LIGHTS WILL BE SUBMITTED SEPARATELY. ALL FIXTURES SHOWN IN FIXTURE SCHEDULE ARE NOT INCLUDED IN THIS FORM.

F. INDOOR LIGHTING FIXTURE SCHEDULE able Instructions: Include all permanent desianed lighting and all portable lighting in offices.

| Tuble Ilisti | able instructions. Include an permanent designed lighting and an portable lighting in offices. | | | | | | | | | |
|---|--|----------------------------|---|-------------------------------------|---------------------------|----------------------------|---------------------------------|------------|--|--|
| Designed \ | Jesigned Wattage: Unconditioned Spaces | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | |
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change ¹ | Watts per luminaire ² | How Wattage is determined | Total number luminaires | Exempt per <u>§140.6(a)3</u> | Design Wat | | |
| D1 | 4" LED DOWNLIGHT | | | 11 | Mfr. Spec ² | 0 | | 0 | | |
| D3 | 6" LED DOWNLIGHT | | | 16 | Mfr. Spec ² | 18 | | 288 | | |
| P1 | ARCH LED LINEAR PENDANT | | | 54 | Mfr. Spec ² | 0 | | 0 | | |
| S4 | LED STRIP LIGHT | | | 30 | Mfr. Spec ² | 8 | | 240 | | |
| D5 | 7" LED PUCK LIGHT | | | 13 | Mfr. Spec ² | 1 | | 13 | | |
| Total Designed Watts UNCONDITIONED SPACES: 54 | | | | | | | | | | |

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used must be the maximum rated for the luminaire, not the lamp.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| STATE OF CALIFORNIA | | | | | | | |
|----------------------------|---|-----------------------------|---|--|--|--|---------------------------|
| Indoor Lighting | | | | | | | |
| NRCC-LTI-E (Created 03/21) | | | | | | CALIF | ORNIA EN |
| CERTIFICATE OF COMP | PLIANCE | | | 1 | | | |
| Project Name: COT/ | A VERA SWIM CLUB - POOL BLDG | | | Report Page: | | | |
| Project Address: CHU | LA VISTA, CALIFORNIA | | | Date Prepared: | | | |
| G. MODULAR LIGHT | ING SYSTEMS | | | | | | |
| This Section Does Not | Apply | | | | | | |
| H. INDOOR LIGHTIN | G CONTROLS (Not Including PAFs) | | | | | | |
| Table Instructions: Plea | ase include lighting controls for conditi | oped and uncondi | tioned snaces in th | nis table When a | n ontion having a | * is selected th | notes |
| must be completed. Th | ne lighting controls section of the Comp | liance Summarv T | able on the first p | aae will show "D(| DES NOT COMPLY' | ' if the notes ar | re left bi |
| Building Level Control | s | | | | | , , | e .ej e .e. |
| | 01 | | | | 02 | | |
| | Mandatory Demand Response | | | Shut- | Off Controls | | |
| | <u>§110.12(c)</u> | | | <u>§</u> | <u>130.1(c)</u> | | |
| | Not Required ≤ 10,000 SF | | | See Area/Sp | ace Level Control | s | |
| Area Level Controls | | | | | | | |
| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 1 |
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls §130.1(a) | Multi-Level Controls <u>§130.1(b)</u> | Shut-Off Controls <u>§130.1(c)</u> | Primary/Skylit Daylighting §130.1(d) | Secondary Daylighting <u>§140.6(d)</u> | Interlo Syste §140. |
| RESTROOM | Restroom (Low Vision) | Auth. Personel | Exempt** | Occ.Sensor | NAA | NAA | |
| EQUIPMENT SPACE | Electrical, Mechanical, Telephone Electrical, Mechanical, Telephone Roo Rooms | Manual ON/ Manual ON/OFF | Exempt* | Exempt** | NAA | NAA | |
| STORAGE | All Other Space Types | Manual ON/ Manual ON/OFF | Dimmer | Occ.Sensor | NAA | NAA | |
| *NOTES: Controls with | a * require a note in the space below | explaining how co | mpliance is achiev | ved. | | 1 | 3 |
| EX: Conference 1: Prim | nary/Skylight Daylighting: Exempt beca | use less than 120 | watts of general li | ghting; | PI | an Sheet Show | ing Day |
| PESTROOM | | | | | | | |
| | RESTRUCIVIS WITH AUTH CONTROL | TUAN ENVICOFT | | | | | |
| | AUTO OFF MAY BE HAZARD AND LESS | THAN .5W/SQFT | | 1 | | | |
| | | | | | | | |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per <u>§140.6(b)</u>. Indicate if additional lighting power allowances per <u>§140.6(c)</u> or adjustments per <u>§140.6(a)</u> are being used. Unconditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - OFFICE BLDG Project Address: CHULA VISTA, CALIFORNIA DOCUMENTATION AUTHOR'S DECLARATION STAT I certify that this Certificate of Compliance documentation Documentation Author Name: AVNE HARRIS & SLOAI Company: 2295 GATEWAY OAKS DRIVE Address City/State/Zip: SACRAMENTO/CA RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the 1. The information provided on this Certificate of Comp 2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer) 3. The energy features and performance specifications, Certificate of Compliance conform to the requirement 4. The building design features or system design feature compliance documents, worksheets, calculations, pla 5. I will ensure that a completed signed copy of this Cer to the enforcement agency for all applicable inspecti documentation the builder provides to the building of Responsible Designer Name: AVNE

HARRIS & SLOAN Company : 2295 GATEWAY OAKS DRIVE, SUITE 200 Address City/State/Zip: SACRAMENTO/CA/95833

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 03/21)

CERTIFICATE OF COMPLIANCE

| | | CALIFORNIA ENERGY COI | | |
|---|---|---|---|--|
| | | | NRCC-LTI-E | |
| G | Report Page | 2: | Page 7 of 7 | |
| | Date Prepar | red: | 12/04/2022 | |
| TEMENT | | | 2 | |
| ion is accurate and complete | | | | |
| IEET SAMRA | Documentation Auth | nor Signature: | | |
| AN | Signature Date: | 12/04/2022 | | |
| /E, SUITE 200 | CEA/ HERS Certification Identification (if applicable): | | | |
| A/95833 | Phone: | 559-916-0320 | | |
| the laws of the State of Californi pliance is true and correct. ofessions Code to accept respon | a: sibility for the buildi | ng design or system design identified on this Certifi | cate of | |
| s, materials, components, and m ents of Title 24, Part 1 and Part 6 res identified on this Certificate lans and specifications submitte ertificate of Compliance shall be tions. I understand that a comple owner at occupancy. | anufactured devices of the California Coc of Compliance are co d to the enforcemen made available with eted signed copy of t | for the building design or system design identified de of Regulations. onsistent with the information provided on other ap t agency for approval with this building permit app the building permit(s) issued for the building, and a his Certificate of Compliance is required to be inclu | on this oplicable lication. made available ded with the | |
| EET SAMRA | Responsible Designe | er Signature: | | |
| AN | Date Signed: | 12/04/2022 | | |

23100

559-916-0320

License:

Phone:

| 0RNIA 02 | Date Prep |
|---|---|
| 02 | |
| | |
| Complete Building or Area Category Primary Function Area | AI D (' |
| Office (open) | |
| All Other Space Types | |
| Multipurpose Rm (Low Vision) | |
| | |
| | |
| | |
| ANCE: TAILORED FLOOR AND TASK LIGHTING | |
| | |
| ANCE: TAILORED ORNAMENTAL/SPECIAL EFFECT | ГS |
| | |
| ANCE: TAILORED VERY VALUABLE MERCHANDIS | F |
| | - |
| | |
| | Primary Function Area Office (open) All Other Space Types Multipurpose Rm (Low Vision) ANCE: AREA CATEGORY METHOD QUALIFYING LI IGHTING POWER ALLOWANCE IGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY /ANCE: TAILORED FLOOR AND TASK LIGHTING ANCE: TAILORED FLOOR AND TASK LIGHTING ANCE: TAILORED ORNAMENTAL/SPECIAL EFFEC ANCE: TAILORED VERY VALUABLE MERCHANDIS |

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21)

0

0

0

March 2021

This Section Does Not Apply

| NRCC-LII-E (Cre | eated 03/21) | | |
|-----------------|---------------|--|---------------|
| CERTIFICATI | E OF COMPL | IANCE | |
| Project Nam | e: COTA | VERA SWIM CLUB - OFFICE BLDG | Repo |
| Project Add | ress: CHULA | VISTA, CALIFORNIA | Date |
| | | | |
| Q. KATEDI | | | |
| This Section | Does Not Ap | oply | |
| | | | |
| R. 80% LIG | HTING POV | VER FOR ALTERATIONS - CONTROLS EXCEPTIONS | |
| This Section | Does Not Ap | oply | |
| | | | |
| S. DAYLIGH | IT DESIGN | POWER ADJUSTMENT FACTOR (PAF) | |
| This Section | Does Not Ap | oply | |
| | | | |
| T. DECLAR | ATION OF R | REQUIRED CERTIFICATES OF INSTALLATION | |
| Table Instru | ctions: Selec | tions have been made based on information provided in previous to | ables of this |
| Table E. Ada | litional Remo | arks. These documents must be provided to the building inspector a | luring constr |
| title24/2019 |)standards/2 | 2019_compliance_documents/Nonresidential_Documents/NRCI/ | |
| | | | |
| YES | NO | Form/T | itle |
| | - | | |
| | | NRCI-LTI-01-E - Must be submitted for all buildings | |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| CA Building E | nergy Efficier | ncy Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title | 24/2019standards |
|--|---|---|--|
| STATE OF CALIF | ORNIA | | |
| Indoor Li | ighting | | |
| NRCC-LTI-E (Cre | eated 03/21) | | |
| CERTIFICATI | E OF COMPL | IANCE | |
| Project Nam | ne: COTA | VERA SWIM CLUB - OFFICE BLDG | Report Page: |
| Project Add | ress: CHUL/ | A VISTA, CALIFORNIA | Date Prepared: |
| U. DECLAR Table Instru Table E. Ada Acceptance | ATION OF ctions: Selec litional Rem Test Technic | REQUIRED CERTIFICATES OF ACCEPTANCE tions have been made based on information provided in previous tables of arks. These documents must be provided to the building inspector during cian Certification Provider (ATTCP). For more information visit: <u>http://www</u> | of this document. construction and w.energy.ca.gov/1 |
| YES | NO | Form/Title | |
| | 0 | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automation | tic time switch cor |
| 0 | ۲ | NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | |
| 0 | 0 | NRCA-LTI-04-A - Must be submitted for demand responsive lighting con | trols. |
| 0 | 0 | NRCA-LTI-05-A - Must be submitted for institutional tuning power adjust | tment factor (PAF |
| 0 | | NBCA-ENV-03-E - Must be submitted for daylighting design power adjust | tment factors (PA |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| | | | | | and California |
|------|-------------|--------------------|---------|--------------------|-----------------|
| | | | CAL | IFORNIA ENERGY COM | |
| | | | | | NRCC-LTI-E |
| Rep | ort Page: | | | | Page 4 of 7 |
| Dat | e Prepared: | | | | 12/04/2022 |
| | 03 | 04 | 05 | 0 | 6 |
| | Allowed | | Allowed | Additional A | llowances / |
| | Density | Area | Wattage | Additional A | tment |
| | (W/ft^2) | (ft ²) | (Watts) | Area Category | PAF |
| | 0.6 | 775 | 465 | | |
| | 0.4 | 100 | 40 | | |
| | 0.95 | 200 | 190 | | |
| | TOTAL: | 1,075 | 695 | See Tables J o | or P for detail |
| | I | | | | |
| | | | | | |
| ING | SYSTEM | | | | 2 |
| | | | | | |
| | | | | | 2 |
| | | | | | |
| | | | | | |
| | | | | | ? |
| | | | | | |
| | | | | | |
| | | | | | 2 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | 2 |
| | | | | | |
| | | | | | |
| (PAF | =)) | | | | ? |
| | | | | | |
| | | | | | |
| | | | | | |

CALIFORNIA ENERGY NRCC-LT rt Page Page 5 of 3 Prepared: 12/04/202 document. If any selection needs to be changed, please explain why in truction and can be found online at <u>https://ww2.energy.ca.gov/</u>

| NO | Form/Title | Field Inspector | | |
|--------|---|-----------------|------|--|
| | | Pass | Fail | |
| 0 | NRCI-LTI-01-E - Must be submitted for all buildings | | | |
| ۲ | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | | | |
| ۲ | NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | | | |
| igodol | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | | | |
| ۲ | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | | | |

CALIFORNIA ENERGY COMM t Page Page 6 of Prepared: 12/04/202 document. If any selection needs to be changed, please explain why in truction and any with "-A" in the form name must be completed through an ergy.ca.gov/title24/attcp/providers.html Field Inspector Pass Fail ne switch controls. nt factor (PAF). t factors (PAF).

| STATE OF CALIFORNIA | | | | | | | | | | | | | |
|---------------------------------|----------------------------|----------------------|-------------------|-------------------------|--|----------------------|-------------|--------------------------|----------------------------|------|------------------------|--------|----|
| Indoor Lighti | ing | | | | | | | | | | | | |
| NRCC-LTI-E (Created 0 | 3/21) | | | | | | | | | | CALIFORNIA EN | ERGY C | 0 |
| CERTIFICATE OF C | OMPLIANCE | | | | | | | | | | | | |
| This document is | used to demons | trate compliance | e with requireme | ents in <u>§110.9</u> , | §11 | 0.12(c), §130.0, | <u>§1</u> 3 | <u>30.1, §140.6,</u> and | d <u>§141.0(b)2</u> for | in | door lighting scor | oes us | ir |
| prescriptive path. | | | | | | | | | | | | | |
| Project Name: | COTA VERA SW | IM CLUB - OFFIC | E BLDG | | | Re | epo | rt Page: | | | | | |
| Project Address: | CHULA VISTA, C | ALIFORNIA | | | | Da | ate | Prepared: | | | | | |
| | | | | | | L | | | | _ | | | _ |
| A. GENERAL INF | ORMATION | | | | | | | | | | | | |
| 01 Project Loca | tion (city) | | CHULA VIST | A, CALIFORNIA | | 04 Total | Сог | nditioned Floor A | Area (ft ²) | | 1, | 075 | |
| 02 Climate Zone | e | | | 7 | | 05 Total | Un | conditioned Floc | or Area (ft ²) | | | 0 | |
| 03 Occupancy T | ypes Within Pro | ject (select all t | hat apply): | | | 06 # of S | tor | ies (Habitable Al | oove Grade) | | | 1 | |
| ✓ Office | | Retail | | Warehouse | | Hote | el/N | Aotel | School | | ✓ Supp | ort A | re |
| Parking Ga | rage 🗌 | ┘ │ High-Rise Res | | Relocatable | | □ Heal | , thc | are 🗌 | Other (write | in): | · · · · | | - |
| | | | | | | | | | | | | | - |
| B. PROJECT SCO | PE | | | | | | | | | | | | |
| Table Instructions | : Include any lig | hting systems th | at are within the | e scope of the p | perr | nit application a | nd | are demonstrati | ng compliance i | usir | ng the prescriptiv | e patl | 7 |
| <u>§140.6</u> or <u>§141.0(</u> | ' <u>b)2</u> for alteratio | ns. WARNING: | Changing the Ca | lculation Meth | od I | in this table will i | resi | ult in the deletion | n of data previo | usl | ly input. If you ne | ed to | С |
| calculation metho | od, please open o | a new form or us | se "Save As". | | | | | | | | | | |
| | Scope | e of Work | | | | Conditioned | l Sp | aces | | | Unconditioned | l Spac | e |
| | | 01 | | | 02 03 | | | | 04 | | | | |
| My F | Project Consists | of (check all tha | t apply): | 0 | Calculation Method Area (ft ²) | | | ²) Ca | Calculation Method | | | | |
| ✓ New Lighting | System | | | | Area Category 1,075 Area Category | | | ea Category | | Г | | | |
| | | | | | | | | | I | | | | - |
| Altered Light | ing System | | | | | | | | | | | | Γ |
| | | | | | | | | | | | | | L |
| | | To | tal Area of Worl | / (f+2) | | 1 07 | 5 | | | | 0 | | - |
| | | 10 | | | | 1,075 | _ | | | | 0 | | _ |
| | | | | | | | | | | | | | - |
| | the fact of the set | his table says "D | OES NOT COMP | V" or "COMPL | | with Exceptional | 1.00 | nditions" rafar t | a Tabla D. far a | uid | lanco | | _ |
| | s. ij uliy celi oli ti | | OLS NOT CONF | | | with Exceptional | | | o rubie D. jor gr | | | 6 | |
| Lighting in | | Allowed Light | ing Power per g | 140.6(b) (wat | ts) | | | Adjusted Light | ing Power per | 314 | <u>+0.6(a)</u> (Watts) | Cor | n |
| conditioned and | 01 | 02 | 03 | 04 | | 05 | | 06 | 07 | | 08 | | |
| unconditioned | | | Area Category | | | | | | Adjustments | | | | |
| spaces must not | Complete | Area Category | Additional | Tailored | | | ≥ | Total | PAF Control | | Total Adjusted | | |
| be combined for | Building | §140.6(c)2 | §140.6(c)2G | <u>§140.6(c)3</u> | = | Total Allowed | | Designed | Credits | = | (Watts) | 0 |)5 |
| compliance per | <u>§140.6(c)1</u> | | (+) | (+) | | (Watts) | | (Watts) | <u>§140.6(a)2</u> | | *Includes | | |
| <u>§140.6(b)1</u> . | | | | | | | | | (-) | | Adjustments | | |
| | (See Table I) | (See Table I) | (See Table J) | (See Table K) | | | | (See Table F) | (See Table P) | | | | |
| Conditioned: | | 695 | | | = | 695 | ≥ | 546 | | = | 546 | | |
| Unconditioned: | | | | | = | | ≥ | | | = | | | |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA Indoor Lighting

Table Continued

March 2021

March 2021

March 2021

| NRCC-LTI-E (0 | Created 03/21) | CALIFORNIA ENERGY CON | | | | | | | |
|---------------|--|-----------------------|---------------------|------------------|-------------------|-------------------|--------------|-----------------|-----|
| CERTIFICA | TE OF COMPLIANCE | | | | | | | | |
| Project Na | ame: COTA VERA SWIM CLUB - OFF | ICE BLDG | | | Report Page: | | | | |
| Project Ad | dress: CHULA VISTA, CALIFORNIA | | | | Date Prepare | d: | | | |
| | | | | | | | | | |
| | | | | Contr | ols Compliance (S | See Table H for D | etails) COMF | LIES with Excep | tio |
| | | | Rated | Power Reduct | ion Compliance (S | See Table Q for D | etails) | Not Appli | cab |
| | | | | | | | | | |
| D. EXCEP | TIONAL CONDITIONS | | | | | | | | |
| This table | is auto-filled with uneditable commen | nts because of s | elections made o | r data entered | in tables through | out the form. | | | |
| E. ADDITI | IONAL REMARKS | | | | | | | | |
| This table | includes remarks made by the permit | applicant to th | e Authority Havin | ng Jurisdiction. | | | | | |
| SITE LIGHT | TING INCLUDING THE BUILDING FACA | DE LIGHTS WIL | L BE SUBMITTED | SEPARATELY. A | ALL FIXTURES SHO | WN IN FIXTURE S | CHEDULE ARE | NOT INCLUDED | IN |
| | | | | | | | | | |
| F. INDOO | OR LIGHTING FIXTURE SCHEDULE | | | | | | | | |
| Table Insti | ructions: Include all permanent design | ned lighting and | l all portable ligh | ting in offices. | | | | | |
| Designed | Wattage: Conditioned Spaces | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |
| | | | | | | | | | + |

| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change ¹ | Watts per luminaire ² | How Wattage is determined | Total number luminaires | Exempt per <u>§140.6(a)3</u> | Design W |
|---------------------|--------------------------------|----------------------------|---|-------------------------------------|---------------------------|----------------------------|---------------------------------|----------|
| D1 | 4" LED DOWNLIGHT | | | 11 | Mfr. Spec ² | 36 | | 396 |
| D3 | 6" LED DOWNLIGHT | | | 16 | Mfr. Spec ² | 6 | | 96 |
| P1 | ARCH LED LINEAR PENDANT | | | 54 | Mfr. Spec ² | 1 | | 54 |
| S4 | LED STRIP LIGHT | | | 30 | Mfr. Spec ² | 0 | | 0 |
| D5 | 7" LED PUCK LIGHT | | | 13 | Mfr. Spec ² | 0 | | 0 |
| | IONED SPACES: | 546 | | | | | | |
| | | | | | | | | |

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used must be the maximum rated for the luminaire, not the lamp.

| CA Building Energy Effici | ency Standards - 2019 Nonresidential Com | pliance: <u>http://ww</u> | w.energy.ca.gov/title | 24/2019standards | | | |
|--|---|-------------------------------------|---|---|-----------------------------------|--|-------------------------------|
| STATE OF CALIFORNIA | | | | | | | |
| Indoor Lighting | | | | | | | |
| NRCC-LTI-E (Created 03/21) | | | | | | CALIF | ORNIA ENERGY |
| CERTIFICATE OF COM | PLIANCE | | | | | | |
| Project Name: COT | A VERA SWIM CLUB - OFFICE BLDG | | | Report Page: | | | |
| Project Address: CHU | LA VISTA, CALIFORNIA | | | Date Prepared: | | | |
| G. MODULAR LIGHT | TING SYSTEMS | | | | | | |
| This Section Does Not | Apply | | | | | | |
| | | | | | | | |
| H. INDOOR LIGHTIN | G CONTROLS (Not Including PAFs) | | | | | | |
| Table Instructions: Ple must be completed. Tl | ase include lighting controls for condit he lighting controls section of the Com | ioned and uncond pliance Summary | ditioned spaces in tl Table on the first p | his table. When an age will show "DC | option having a DES NOT COMPLY | * is selected, th " if the notes ar | e notes sect e left blank. |
| Building Level Contro | ls | | | | | | |
| | 01 | | | | 02 | | |
| | Mandatory Demand Response | | | Shut-0 | Off Controls | | |
| | <u>§110.12(c)</u> | | | <u>§</u> : | <u>130.1(c)</u> | | |
| | Not Required ≤ 10,000 SF | | | See Area/Sp | ace Level Control | s | |
| Area Level Controls | | | 1 | | | | I |
| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| | Complete Building or Area Category | Area Controls | Multi-Level | Shut-Off | Primary/Skylit | Secondary | Interlocke |
| Area Description | Primary Function Area | §130.1(a) | Controls | Controls | Daylighting | Daylighting | Systems |
| | | <u></u> | <u>§130.1(b)</u> | <u>§130.1(c)</u> | <u>§130.1(d)</u> | <u>§140.6(d)</u> | <u>§140.6(a)</u> |
| OFFICE | Office (open) | Manual ON/ Manual ON/ OFF | 5 Dîmmer er | Occ.Senson | Exempt** | Exempt* | |
| COPIER/KITCH | Multipurpose Rm (Low Vision) | Manual ON/ OFF | Dimmeer | Occ. Sensor | NAA | NAA | |
| STORAGE | All Other Space Types | Manual ON/ OFF | Dimmeer | Occ. Sensor | NAA | NAA | |
| *NOTES: Controls with | a * require a note in the space below | explaining how o | compliance is achie | ved. | | 1 | .3 |
| EX: Conference 1: Prin EXCEPTION 1 to §130. | nary/Skylight Daylighting: Exempt becc 1(d)2 | ause less than 120 |) watts of general li | ighting; | Р | lan Sheet Show | ing Daylit Zo |
| OFFICE | LESS THAN 120W IN PDZ | | | | | | |
| 0 0 E | | | | | | | |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per <u>§140.6(b)</u>. Indicate if additional lighting power allowances per <u>§140.6(c)</u> or adjustments per <u>§140.6(a)</u> are being used. Conditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

JOB NUMBER: HS22244

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Project Address: CHULA VISTA, CALIFORNIA **DOCUMENTATION AUTHOR'S DECLARATION STAT** I certify that this Certificate of Compliance documentation Documentation Author Name: AVNE HARRIS & SLOAI Company: 2295 GATEWAY OAKS DRIVE City/State/Zip: SACRAMENTO/CA **RESPONSIBLE PERSON'S DECLARATION STATEMENT** I certify the following under penalty of perjury, under the 1. The information provided on this Certificate of Comp 2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer) 3. The energy features and performance specifications, Certificate of Compliance conform to the requirement 4. The building design features or system design feature compliance documents, worksheets, calculations, pla 5. I will ensure that a completed signed copy of this Cer to the enforcement agency for all applicable inspecti documentation the builder provides to the building of Responsible Designer Name: AVNE HARRIS & SLOAN Company : 2295 GATEWAY OAKS DRIVE, SUITE 200 City/State/Zip: SACRAMENTO/CA/95833

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Indoor Lighting

NRCC-LTI-E (Created 03/21

CERTIFICATE OF COMPLIANCE

| | | CALIFORNIA ENERGY COM | |
|---|--|---|---|
| | | | NRCC-LTI-E |
| | Report Page: | | Page 7 of 7 |
| | Date Prepared: | | 12/04/2022 |
| TEMENT | | | ? |
| ion is accurate and complete | | | |
| IEET SAMRA | Documentation Author S | Signature: | |
| AN | Signature Date: | 12/04/2022 | |
| /E, SUITE 200 | CEA/ HERS Certification | Identification (if applicable): | |
| A/95833 | Phone: | 559-916-0320 | |
| the laws of the State of Californi | a: | | |
| pliance is true and correct. | | | |
| ofessions Code to accept respon | sibility for the building d | design or system design identified on this Certific | ate of |
| s, materials, components, and m ents of Title 24, Part 1 and Part 6 res identified on this Certificate lans and specifications submitte ertificate of Compliance shall be tions. I understand that a comple owner at occupancy. | anufactured devices for of the California Code of of Compliance are consis d to the enforcement ag made available with the eted signed copy of this (| the building design or system design identified of f Regulations. stent with the information provided on other ap ency for approval with this building permit appli e building permit(s) issued for the building, and m Certificate of Compliance is required to be includ | n this plicable cation. 1ade available led with the |
| EET SAMRA | Responsible Designer Sig | gnature: | |
| AN | Date Signed: | 12/04/2022 | |

23100

559-916-0320

License:

Phone:

| Project Name: COTA VERA SWIM | 1 CLUB - POOL BLDG | Report Pa |
|----------------------------------|---|----------------|
| Project Address: CHULA VISTA, CA | LIFORNIA | Date Prep |
| 01 | 02 | |
| Area Description | Complete Building or Area Category Primary Function Area | Al Di (\ |
| RESTROOM | Restroom | |
| EQUIPMENT SPACE | Electrical, Mechanical, Telephone Rooms | |
| STORAGE | All Other Space Types | |
| | | |
| | | |
| J. ADDITIONAL LIGHTING ALLO | WANCE: AREA CATEGORY METHOD QUALIFYING LIG | HTING SYSTI |
| This Section Does Not Apply | | |
| K TAILORED METHOD GENERA | | |
| This Section Does Not Apply | | |
| | | |
| L. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED WALL DISPLAY | |
| This Section Does Not Apply | | |
| | | |
| This Section Does Not Apply | WANCE. TAILORED FLOOR AND TASK LIGHTING | |
| | | |
| N. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS | 5 |
| This Section Does Not Apply | | |
| | | |
| U. ADDITIONAL LIGHTING ALLO | WANCE: TAILORED VERY VALUABLE MERCHANDISE | |
| Inis Section Does Not Apply | | |
| P POWER ADJUSTMENT LIGHT | ING CONTROL CREDIT (POWER ADJUSTMENT FACTO | OR (PAF)) |

STATE OF CALIFORNIA Indoor Lighting

 \bigcirc

0

March 2021

This Section Does Not Apply

| NRCC-LTI-E (Cr | reated 03/21) | | |
|---|--|--|-----------------------------|
| CERTIFICAT | E OF COMPL | IANCE | |
| Project Nar | ne: COTA | VERA SWIM CLUB - POOL BLDG | Repo |
| Project Add | ress: CHUL | A VISTA, CALIFORNIA | Date |
| Q. RATED | POWER RE | DUCTION COMPLIANCE FOR ALTERATIONS | |
| This Section | n Does Not A | pply | |
| R. 80% LIG | | WER FOR ALTERATIONS - CONTROLS EXCEPTIONS | |
| This Section | n Does Not A | pply | |
| | | | |
| S. DAYLIG | HT DESIGN | POWER ADJUSTMENT FACTOR (PAF) | |
| This Section | n Does Not A | pply | |
| | | | |
| T. DECLAR | ATION OF I | REQUIRED CERTIFICATES OF INSTALLATION | |
| Table Instru Table E. Ad <u>title24/201</u> | uctions: Selec ditional Rem 9standards/. | tions have been made based on information provided in previous t arks. These documents must be provided to the building inspector 2019_compliance_documents/Nonresidential_Documents/NRCI/ | ables of this during constr |
| YES | NO | Form/* | Title |
| ۲ | 0 | NRCI-LTI-01-E - Must be submitted for all buildings | |
| 0 | ۲ | NRCI-LTI-02-E - Must be submitted for a lighting control system, c recognized for compliance. | or for an Ener |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| CA Building E | Energy Efficie | ncy Standards - 2019 Nonresidential Compliance: http://www.energy.c | a.gov/title24/2019standards |
|--|---|---|--|
| STATE OF CALII | FORNIA | | |
| Indoor L | ighting | | |
| NRCC-LTI-E (Cr | eated 03/21) | | |
| CERTIFICAT | E OF COMP | LIANCE | |
| Project Nan | ne: COTA | VERA SWIM CLUB - POOL BLDG | Report Page: |
| Project Add | ress: CHUL | A VISTA, CALIFORNIA | Date Prepared: |
| | | | |
| U. DECLAR | ATION OF | REQUIRED CERTIFICATES OF ACCEPTANCE | |
| Table Instru Table E. Ado Acceptance | ctions: Sele ditional Ren Test Techni | ctions have been made based on information provided in previou narks. These documents must be provided to the building inspect ician Certification Provider (ATTCP). For more information visit: <u>h</u> | <i>is tables of this document. Ij</i> or during construction and c <u>attp://www.energy.ca.gov/t</u> |
| YES | NO | For | m/Title |
| $oldsymbol{\circ}$ | 0 | NRCA-LTI-02-A - Must be submitted for occupancy sensors and | automatic time switch con |
| 0 | ۲ | NRCA-LTI-03-A - Must be submitted for automatic daylight cor | itrols. |
| \sim | | NRCA-ITI-04-A - Must be submitted for demand responsive lig | lating controls |
| | | intervention demand responsive ing | nting controls. |
| 0 | 0 | NRCA-LTI-05-A - Must be submitted for institutional tuning po | wer adjustment factor (PAF) |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| | | | | at all Califrage |
|----------------------|--------------------|---------|-------------------|------------------|
| | | CALI | FORNIA ENERGY COM | |
| | | | | NRCC-LTI-E |
| t Page: | | | | Page 4 of 7 |
| Prepared: | | | | 12/04/2022 |
| 03 | 04 | 05 | 0 | 6 |
| Allowed | | Allowed | Additional A | llowances / |
| Density | Area | Wattage | Adjust | tment |
| (W/ft ²) | (ft ²) | (Watts) | Area Category | PAF |
| 0.65 | 680 | 442 | | |
| 0.4 | 605 | 242 | | |
| 0.4 | 340 | 136 | | |
| TOTAL: | 1,625 | 820 | See Tables J o | or P for detail |
| I | | | 1 | |
| | | | | |
| STEM | | | | ? |
| | | | | |
| | | | | 6 |
| | | | | <u></u> |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | _ |
| | | | | 2 |
| | | | | |
| | | | | [] |
| | | | | 1 |
| | | | | |
| | | | | 2 |
| | | | | |
| | | | | |
| | | | | |

.ON CALIFORNIA ENERGY NRCC-LT rt Page Page 5 of Prepared: 12/04/202 document. If any selection needs to be changed, please explain why in truction and can be found online at <u>https://ww2.energy.ca.gov/</u> Field Inspector

| NO | Form/Title | | | |
|----|---|------|------|--|
| | | Pass | Fail | |
| 0 | NRCI-LTI-01-E - Must be submitted for all buildings | | | |
| ۲ | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | | | |
| ۲ | NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | | | |
| ۲ | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | | | |
| ۲ | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | | | |

CALIFORNIA ENERGY COMM t Page Page 6 c Prepared: L2/04/202 document. If any selection needs to be changed, please explain why in truction and any with "-A" in the form name must be completed through an ergy.ca.gov/title24/attcp/providers.html Field Inspector Pass Fail ne switch controls. t factor (PAF). t factors (PAF).

| STATE OF CALIFORNIA | | | | | | | | | | | | |
|---------------------------------|-----------------------|---------------------|--------------------|---------------------------|------|-------------------------|-----------|--------------------------|-------------------------|-------|--------------------|----------|
| Indoor Lighti | ing | | | | | | | | | | | |
| NRCC-LTI-E (Created 0 | 3/21) | | | | | | | | | | CALIFORNIA EN | E |
| CERTIFICATE OF C | COMPLIANCE | | | | | | | | | | | |
| This document is | used to demons | trate compliance | e with requireme | ents in <u>§110.9</u> , § | 11 | <u>0.12(c), §130.0,</u> | <u>§1</u> | <u>30.1, §140.6,</u> and | d <u>§141.0(b)2 f</u> o | r ind | door lighting sco | oe |
| prescriptive path. | | | | | | | | | | | | |
| Project Name: | COTA VERA SW | IM CLUB - POOL | BLDG | | | R | еро | rt Page: | | | | |
| Project Address: | CHULA VISTA, C | ALIFORNIA | | | | D | ate | Prepared: | | | | |
| A. GENERAL INF | ORMATION | | | | | | | | | | | |
| 01 Project Loca | tion (city) | | CHULA VIST | A, CALIFORNIA | | 04 Total | Со | nditioned Floor | Area (ft ²) | | | - |
| 02 Climate Zone | е е | | | 7 | | 05 Total | Un | conditioned Flor | or Area (ft^2) | | 1 | .6 |
| | - Types Within Pro | piect (select all t | hat apply): | | | | Stor | ies (Habitable Al | hove Grade) | | | 1 |
| | | Betail | | Warehouse | | | | | School | | | |
| | | | | Polocatable | | | -17 N | |] Other (write | in). | | <u>.</u> |
| | lage | | | Relocatable | | Пеа | TUTIC | | | my. | POOL BU | |
| B. PROJECT SCO | PE | | | | | | | | | | | |
| Table Instructions | : Include any lig | hting systems th | at are within th | e scope of the p | ern | nit application d | nd | are demonstrati | ng compliance | usir | ng the prescriptiv | e |
| <u>§140.6</u> or <u>§141.0(</u> | b)2 for alteratio | ons. WARNING: | Changing the Ca | lculation Metho | d i | n this table will | res | ult in the deletio | n of data previ | ousl | y input. If you ne | e? |
| calculation metho | od, please open o | a new form or us | se "Save As". | | | | | | | | | |
| | Scope | e of Work | | | | Conditione | d Sp | aces | | | Unconditioned | ł |
| | | 01 | | | | 02 | | 03 | | | 04 | |
| My F | Project Consists | of (check all tha | t apply): | Ca | lcu | lation Method | | Area (ft ² | ²) C | alcu | llation Method | |
| ✓ New Lighting | g System | | | | | | | | | Ar | ea Category | _ |
| | | | | | | | | I | I | | | _ |
| Altered Light | ting System | | | | | | | | | | | _ |
| | 0, | | | | | | | | | | | |
| | | To | tal Area of Worl | < (ft ²) | | | | | | | 1,625 | - |
| | | | | | | | | | | | | - |
| C. COMPLIANCE | RESULTS | | | | | | | | | | | |
| Table Instructions | : If any cell on t | his table savs "D | OES NOT COMP | LY" or "COMPLI | ES I | with Exceptiona | I Co | nditions" refer t | o Table D. for a | nuid | ance. | - |
| | | Allowed Light | ting Power per § | 140.6(b) (Watt | s) | • | | Adjusted Light | ting Power per | §14 | 0.6(a) (Watts) | |
| Lighting in | 01 | 02 | 03 | 04 | Ī | 05 | 1 | 06 | 07 | Τ | 08 | |
| conditioned and | | | | | 1 | | 1 | | Adjustments | - | | |
| unconditioned | Complete | | Area Category | Tailored | | | | Total | PAE Control | - | Total Adjusted | |
| spaces must not | Building | Area Category | Additional | §140.6(c)3 | = | Total Allowed | ≥ | Designed | Credits | = | (Watts) | |
| sompliance per | <u>§140.6(c)1</u> | <u>9140.6(c)2</u> | <u>9140.6(c)2G</u> | (+) | | (Watts) | | (Watts) | §140.6(a)2 | | *Includes | |
| 8140.6(h)1 | | | (+) | | | | | | (-) | | Adjustments | |
| 51.0.0(0/1. | (See Table I) | (See Table I) | (See Table J) | (See Table K) | 1 | | | (See Table F) | (See Table P) | | | |
| Conditioned: | | | | , | = | | ≥ | , | | = | | |
| Unconditioned: | | 820 | | | = | 820 | ≥ | 541 | | = | 541 | |
| | | | | | 1 | | 1 | | | | | |

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA Indoor Lighting

Table Continued

March 2021

March 2021

March 2021

| NRCC-LTI-E (Created 03/21) | | CALIFORNIA ENER |
|---|--|-------------------|
| CERTIFICATE OF COMPLIANCE | | |
| Project Name: COTA VERA SWIM CLUB - POOL BLDG | Report Page: | |
| Project Address: CHULA VISTA, CALIFORNIA | Date Prepared: | |
| | | |
| Contre | ols Compliance (See Table H for Details) | COMPLIES with Exc |
| Rated Power Reducti | on Compliance (See Table Q for Details) | Not Ap |
| | | |
| D. EXCEPTIONAL CONDITIONS | | |
| This table is auto-filled with uneditable comments because of selections made or data entered | in tables throughout the form. | |

Table H Indoor Lighting Controls Permit Applicant Notes: RESTROOM: RESTROOMS WITH AUTH CONTROL

EQUIPMENT SPACE: AUTO OFF MAY BE HAZARD AND LESS THAN .5W/SQFT

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. SITE LIGHTING INCLUDING THE BUILDING FACADE LIGHTS WILL BE SUBMITTED SEPARATELY. ALL FIXTURES SHOWN IN FIXTURE SCHEDULE ARE NOT INCLUDED IN THIS FORM.

F. INDOOR LIGHTING FIXTURE SCHEDULE able Instructions: Include all permanent desianed lighting and all portable lighting in offices.

| Tuble Ilisti | abe instructions. Include an permanent designed lighting and an portable lighting in offices. | | | | | | | | | | | |
|--|---|----------------------------|---|-------------------------------------|---------------------------|----------------------------|---------------------------------|------------|--|--|--|--|
| Designed Wattage: Unconditioned Spaces | | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | | | |
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change ¹ | Watts per luminaire ² | How Wattage is determined | Total number luminaires | Exempt per <u>§140.6(a)3</u> | Design Wat | | | | |
| D1 | 4" LED DOWNLIGHT | | | 11 | Mfr. Spec ² | 0 | | 0 | | | | |
| D3 | 6" LED DOWNLIGHT | | | 16 | Mfr. Spec ² | 18 | | 288 | | | | |
| P1 | ARCH LED LINEAR PENDANT | | | 54 | Mfr. Spec ² | 0 | | 0 | | | | |
| S4 | LED STRIP LIGHT | | | 30 | Mfr. Spec ² | 8 | | 240 | | | | |
| D5 | 7" LED PUCK LIGHT | | | 13 | Mfr. Spec ² | 1 | | 13 | | | | |
| | | | | | Total Designed W | atts UNCONDIT | IONED SPACES: | 541 | | | | |

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used must be the maximum rated for the luminaire, not the lamp.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| STATE OF CALIFORNIA | | | | | | | |
|----------------------------|---|-----------------------------|---|--|--|--|---------------------------|
| Indoor Lighting | | | | | | | |
| NRCC-LTI-E (Created 03/21) | | | | | | CALIF | ORNIA EN |
| CERTIFICATE OF COMP | PLIANCE | | | 1 | | | |
| Project Name: COT/ | A VERA SWIM CLUB - POOL BLDG | | | Report Page: | | | |
| Project Address: CHU | LA VISTA, CALIFORNIA | | | Date Prepared: | | | |
| G. MODULAR LIGHT | ING SYSTEMS | | | | | | |
| This Section Does Not | Apply | | | | | | |
| H. INDOOR LIGHTIN | G CONTROLS (Not Including PAFs) | | | | | | |
| Table Instructions: Plea | ase include lighting controls for conditi | oped and uncondi | tioned snaces in th | nis table When a | n ontion having a | * is selected th | notes |
| must be completed. Th | ne lighting controls section of the Comp | liance Summarv T | able on the first p | aae will show "D(| DES NOT COMPLY' | ' if the notes ar | re left bi |
| Building Level Control | s | | | | | , , | e .ej e .e. |
| | 01 | | | | 02 | | |
| | Mandatory Demand Response | | | Shut- | Off Controls | | |
| | <u>§110.12(c)</u> | | | <u>§</u> | <u>130.1(c)</u> | | |
| | Not Required ≤ 10,000 SF | | | See Area/Sp | ace Level Control | s | |
| Area Level Controls | | | | | | | |
| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 1 |
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls §130.1(a) | Multi-Level Controls <u>§130.1(b)</u> | Shut-Off Controls <u>§130.1(c)</u> | Primary/Skylit Daylighting §130.1(d) | Secondary Daylighting <u>§140.6(d)</u> | Interlo Syste §140. |
| RESTROOM | Restroom (Low Vision) | Auth. Personel | Exempt** | Occ.Sensor | NAA | NAA | |
| EQUIPMENT SPACE | Electrical, Mechanical, Telephone Electrical, Mechanical, Telephone Roo Rooms | Manual ON/ Manual ON/OFF | Exempt* | Exempt** | NAA | NAA | |
| STORAGE | All Other Space Types | Manual ON/ Manual ON/OFF | Dimmer | Occ. Sensor | NAA | NAA | |
| *NOTES: Controls with | a * require a note in the space below | explaining how co | mpliance is achiev | ved. | | 1 | 3 |
| EX: Conference 1: Prim | nary/Skylight Daylighting: Exempt beca | use less than 120 | watts of general li | ghting; | PI | an Sheet Show | ing Day |
| PESTROOM | | | | | | | |
| | RESTRUCIVIS WITH AUTH CONTROL | TUAN ENVICOFT | | | | | |
| | AUTO OFF MAY BE HAZARD AND LESS | THAN .5W/SQFT | | 1 | | | |
| | | | | | | | |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per <u>§140.6(b)</u>. Indicate if additional lighting power allowances per <u>§140.6(c)</u> or adjustments per <u>§140.6(a)</u> are being used. Unconditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

| | SYMBOLS LEG |
|------------|-----------------------|
| NOTATION | DEFINITIONS: |
| AFF | - ABOVE FINISH FLOOR |
| BP | - BUILDING PANEL |
| сст | |
| EV | - ELECTRICAL VEHICLE |
| MS | - MOTION SENSOR |
| PC | PHOTOCELL |
| WP | - WEATHER PROOF |
| SYMBOLS | : |
| | JUNCTION BOX |
| | - DUPLEX WALL RECEPT |
| -\$- | SINGLE WALL SWITCH |
| ю | - WALL-MOUNT LIGHT FI |
| -¢- | CEILING-MOUNT LIGHT |
| ≻≺ | CEILING-MOUNT UTILIT |
| | - POLE LIGHT WITH ARM |
| -Q- | - LUMINOUS POLE LIGHT |
| $ \oplus$ | POST-TOP LIGHT |
| Θ | BOLLARD |

| | | | GENERAL NOTES |
|---|--|--|--|
| | | I. IT IS THE CON TO REVIEW ALL | RACTORS/OWNERS/DEVELOPERS RESPONSIBILIT |
| | | 2. PRIOR TO BUIL | N THE CONSTRUCTION OF THE STRUCTURE. DING DEPARTMENT APPROVAL, THESE DOCUMENTS ARE SUBJECT TO CHANGE AND |
| | | SHALL NOT BE BIDS PERFORM | USED FOR CONSTRUCTION. ANY CONSTRUCTION ED BEFORE PERMIT ISSUANCE IS THE |
| | | RESPONSIBILIT | P OF THE CONTRACTOR/BIDDER. |
| | | | MENT: |
| | | LOCATED IN A UT END OF THE BUIL | TILITY CLOSET OR ON EXTERIOR WALL AT THE DING, SEE BUILDING PLANS FOR LOCATION(S) |
| | | MECHANICAL EQUI | PMENT: |
| ₽ | | OF THE BUILDING ARCHITECTURAL | / ON THE ROOF, COORDINATE WITH BITE PLAN FOR LOCATION(S). PROVIDE |
| | | FOR GENERAL RE | QUIREMENTS. |
| μ | | EXTERIOR LIGHTIN WHERE SITE LIGH THE BUILDING, SI | <u>iG:</u> TING IS PROVIDED BY FIXTURE(S) ATTACHED EE LIGHTING / PHOTOMETRIC PLAN (BY OTHER: |
| | | FOR FIXTURE SPE | CIFICATIONS AND LOCATIONS AT EACH BUILDIN |
| | | SOLAR PANELS P ORIENTATION OF | ROVIDED ON ROOF, LOCATION VARIES BASED (STRUCTURE, SEE SOLAR PLANS PROVIDED BY |
| | | INTERFACE REQUI | REMENTS. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | TERIOR LAYOUT NOTES |
| | | TO THE BUILDI | NG PANEL, UNO. NG UNITS TO THE UNIT SUB-PANEL AND |
| | | PROVIDE A ME. AND NOT OVER | ANS OF CIRCUIT INTERRUPT WITHIN SIGHT OF 50' FROM THE CONDENSING UNIT PER CMC, S |
| | | SERVICE RECEPT | TACLE SHALL BE LOCATED WITHIN 25' OF |
| | | THE SIDE OF A RECEPTACLE W CONDENSING U | BUILDING OR ON THE ROOF, A SINGLE COMMC ITHIN 25' CAN BE USED TO SERVICE MULTIPLE NTS. IF PROVIDED, WIRE COMMON RECEPTACLE |
| | | TO THE BUILDI DISCONNECT AN BRICK TO INST | NG PANEL. COORDINATE LOCATION OF ID SERVICE RECEPTALE WITH HVAC CONTRACT |
| | | 3. ILLUMINATED A | ALLATION. DDRESS LIGHTS SHALL COMPLY WITH ADDRES: REQUIREMENTS PER ARCHITECTURAL PLANS |
| | | | REGULARITE FER ARGINE CORAE FEAG. |
| | | | KEYNOTES |
| | | PROVIDE COM PROVIDE FINA | BINATION POWER/DATA FLOOR BOX. ARCHITECT TO L LOCATION. |
| | | 2 ROUTE COND | UITS FOR COMBINATION FLOOR BOX PRIOR TO CONDUIT/WIRING SHALL ROLLTED AND DROP |
| | | DOWN THROL | GH NEAREST WALL WITH UNDERGROUND RUN T |
| | | (15) REFER TO EN AT UTILITY | N SHEETS FOR POWER AND LIGHTING LAYOUT(SCLOSET(S). |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | NOTATION DEFINI | SYMBOLS LEGEND |
| | | NOTATION DEFINI 3 AFF | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DIVAL TECHNOLOGY |
| | | NOTATION DEFINI 3 | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH |
| | | NOTATION DEFINI 3 | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL UILTDAELL |
| | | NOTATION DEFINI 3 | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF |
| | | NOTATION DEFINI 3 | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL V V | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION 1. |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP WP KEY TC EM NL LV SYMBOLS: TC C | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM NL LV SYMBOLS: TC TC TC TC TC TC TC TC TC | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH - OCCUPANCY SENSOR PHOTOCELL - ULTRASONIC - VACANCY SENSOR WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK EMERGENCY - NIGHT LIGHT - LOW VOLTAGE DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - WSB AND DUPLEX COMBO RECEPTACLE - LEGRAND PTTR20HACUSBW OR EQUIVALENT |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: C SYMBOLS: C C C C C C C C C C C C C | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE - (AFCI/GFI) |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: C SYMBOLS: C C C C C C C C C C C C C | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) - DISHWASHER (UNDER-COUNTER) RECEPTACLE |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: SYMBOLS: | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR - DIMMER/DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - MEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) - DISHWASHER (UNDER-COUNTER) RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) - RECEPTACLE |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: 3 - WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR MEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE MICROWAVE RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) |
| | | NOTATION DEFINI 3 AFF D/DOS DP/MP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: | SYMBOLS LEGEND TIONS: 3 -WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE MICROWAVE RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE |
| | | NOTATION DEFINI 3 AFF D/DOS DP//NP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR - DIMP PROOF OR WEATHER PROOF - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - MUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I. - USB AND DUPLEX COMBO RECEPTACLE - LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) - DISHWASHER (UNDER-COUNTER) RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - MICROWAVE RECEPTACLE - 220V WALL RECEPTACLE (+30" AFF, UNO) - DUPLEX OVERHEAD RECEPTACLE - DUPLEX OVERHEAD RECEPTACLE - DUPLEX OVERHEAD RECEPTACLE - DUPLEX FLOOR RECEPTACLE (FLUSH FLOOR IS |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: SYMBOLS: | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE 220V WALL RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE * |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: SYMBOLS: | SYMBOLS LEGEND TIONS: = 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE 220V WALL RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE K CTED AT INTERIOR LOCATION(S), UNO OR AS GFI PROTECTED BY SQUARE SYMBOL |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMELOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HAF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMEO RECEPTACLE LEGRAND PTTR20HACUSEW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE LEGRAND PTR20HACUSEW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE MICROWAVE RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR FOR POKE-THRU) FOURPLEX WALL RECEPTACLE & OR POKE-THRU) |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: | SYMBOLS LEGEND |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND |
| | | | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR HOTOR RATED SWITCH ULTRASONIC ULTRASO |
| | | | SYMBOLS LEGEND TIONS: 3-MAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE AICORAVE RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR FE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR FE CTED AT INTERIOR LOCATION(S), UNO OR AS GFI PROTECTED BY SQUARE SYTBOL SINGLE WALL SWITCH WALL-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE |
| | | | SYMBOLS LEGEND |
| | | | SYMBOLS LEGEND IIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DIATP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED WOTOR RATED SWITCH OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFGI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE IDUPLEX VERHEAD RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE IDUPLEX VERHEAD RECEPTACLE CORNER COUNTER DUPLEX WALL RECEPTACLE SOF OR POKE-THRU) DUPLEX ALL RECEPTACLE (FLUSH FLOOR B OR POKE-THRU) SINGLE WALL RECEPTACLE (AS NOTED) SINGLE WALL SCOTTER DY SQUARE SYMBOL SPECIAL PURPOSE RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE HANGING CELING-MOUNT LIGHT FIXTURE |
| | | | SYMBOLS LEGEND TIONS: - 3-MAY - ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR - DIAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - WEATHER PROOF - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I HALF-SWITCHED DUPLEX WALL RECEPTACLE - LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE - LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - MICROWAVE RECEPTACLE (+30" AFF, UNO) - DUPLEX OVERHEAD RECEPTACLE - 220V WALL RECEPTACLE (+130" AFF, UNO) - DUPLEX OVERHEAD RECEPTACLE - 220V WALL RECEPTACLE (FLUSH FLOOR B OR POKE-THRU) - FOURPLEX WALL RECEPTACLE (FLUSH FLOOR B OR POKE-THRU) - FOURPLEX WALL RECEPTACLE (AS NOTED) - SINGLE WALL SWITCH - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - MANGING CEILING-MOUNT LIGHT FIXTURE - MANGING CEILING-MOUNT LIGHT FIXTURE - MANGING CEILING-MOUNT LIGHT FIXTURE - MANGING CEILING HENDING HENDIN |
| | | | SYMBOLS LEGEND TIONS: - ABOVE FINISH FLOOR DIMIP ROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL UITRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE DUPLEX OVERHEAD RECEPTACLE (+130" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR E OR PORE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR M OS PC US VWP KEY TC EM NL LV STMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: - 3-MAY - ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DATE PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH - OCCUPANCY SENSOR WEATHER PROOF - AUTHORIZED KEY LIGHT SWITCH TIMELCOK EMERGENCY NIGHT LIGHT - LOW VOLTAGE DUPLEX WALL RECEPTACLE AFGI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMEO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE - 220V WALL RECEPTACLE - 220V WALL RECEPTACLE - 220V WALL RECEPTACLE - MICROWAVE RECEPTACLE - 220V WALL RECEPTACLE - 220V WALL RECEPTACLE - 220V WALL RECEPTACLE - 220V WALL RECEPTACLE - DUPLEX OVERHEAD RECEPTACLE - DUPLEX OVERHEAD RECEPTACLE - DUPLEX VAEHEAD RECEPTACLE - DUPLEX MALL RECEPTACLE - 200V WALL RECEPTACLE - 200V WALL RECEPTACLE - 200V WALL RECEPTACLE - 200V WALL RECEPTACLE - DUPLEX OVERHEAD RECEPTACLE - SPECIAL PURPOSE RECEPTACLE (FLUSH FLOOR BC AS GFI PROTECTED BY SQUARE SYMBOL - SPECIAL PURPOSE RECEPTACLE (AS NOTED) - SINGLE WALL SWITCH - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - MALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIG |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT IR OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | SYMBOLS LEGEND TIONS: |
| | | | SYMBOLS LEGEND IONS: 3-WAY ABOVE FINISH FLOOR DIMMERVACY SENSOR DWAP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DUPLEX OVERHEAD RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED / PIVOT CEILING LIGHT FIXTURE HANGING CEILING-MOUNT LIGHT FIXTURE HANGING CEILING ADDANT LED UND/SQUARE PENDANT LED VIDENCO |
| | | NOTATION DEFINI 3 AFF D/DOS DP/WP DT R M OS PC US V WP KEY TC EM NL V SYMBOLS: H H H H H H H H | SYMBOLS LEGEND TONS: 3-WAY ABOVE FINISH FLOOR DIMMERVOITMER W/ OCCUPANCY SENSOR DWAT PROOF OR MEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERTER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR2OHACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCU/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE MICROWAVE RECEPTACLE (+30° AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR TO GR POKE-THRU) FOURPLEX WALL RECEPTACLE (FLUSH FLOOR TO OR POKE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT SCONCE LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE HANGING CEILING-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE HANGING CEILING LIGHT FIXTURE HANGING CEILING LIGHT FIXTURE CEILING-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE CEILING-MOUNT LIGHT FIXTURE CEILING CEILING LIGHT FIXTURE CEILING FAN / LIGHT (AS NOTED) |
| | | | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DWAT ECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT LOOK VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE AGRECOUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE MICROWAVE RECEPTACLE (+30" AFF, UNO) DUPLEX FLOOR RECEPTACLE (FLUSH FLOOR EGOR POKE-THRU) FOURPLEX WALL RECEPTACLE (HUSH FLOOR EGOR POKE-THRU) FOURPLEX HALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT SCONCE LIGHT FIXTURE VALL-MOUNT LIGHT FIXTURE RECESSED / PIVOT CEILING LIGHT FIXTURE RECESSED / PIVOT CEILING LIGHT FIXTURE RECESSED CEIL |
| | | | SYMBOLS LEGEND IONS: 3-WAY ABOVE FINISH FLOOR DUMITER/DIMMER W/ OCCUPANCY SENSOR DUAL TECHNOLOGY INFRARED WOTOR RATED SWITCH OCCUPANCY SENSOR WEATHER PROOF UTASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH ITTRECOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. LIGHT UUSB AND DUPLEX COMBO RECEPTACLE IEGRAND PTTR20HACUSEW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCIGFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE 220V WALL RECEPTACLE (+30° AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE (FLUSH FLOOR F OR POKE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT SCONCE LIGHT FIXTURE VALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE ALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE HANGING CEILING MONT LIGHT FIXTURE HANGING CEILING MONT LIGHT FIXTURE HANGING CEILING MONT LIGHT FIXTURE ACCESSED / PIVOT CEILING LIGHT FIXTURE HANGING CEILING MONT LIGHT FIXTURE ACCESSED / PIVOT CEILING LIGHT FIXTURE HANGING CEILING MONT LIGHT FIXTURE ACCESSED / PIVOT CEILING LIGHT FIXTURE ACCESSED SLOT FIXTURE ACCESSED |
| | | | SYMBOLS LEGEND |
| | | | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER/DIMMER W/ OCCUPANCY SENSOR DIAL TECHNOLOGY UNTRARED MOTOR RATED SWITCH OCCUPANCY SENSOR HOTOR RATED SWITCH OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK ETHEGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE GARBAGED DISPUSAL (UNDER-COUNTER) RECEPTACLE GARBAGED DISPUSAL (UNDER-COUNTER) RECEPTACLE GARBAGED DISPOSAL (UNDER-COUNTER) RECEPTACLE GARBAGED DISPOSAL (UNDER-COUNTER) RECEPTACLE IDIPLEX FLOOR RECEPTACLE (+130" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR FLOOR RECEPTACLE DUPLEX FLOOR RECEPTACLE (FLUSH FLOOR FLOOR RECEPTACLE (FLUSH FLOOR FLOOR RECEPTACLE (AS NOTED) COR POKE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE WALL-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE WALL-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE WALL-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE CELLING-MOUNT LIGHT FIXTURE CELLING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX LED UTILITY STRIP LIGHT LED RECESSED SLOT FIXTURE CELLING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX PUSH-BUTTON SWITCH (AS NOTED) WITH RE-INFORCED JUNCTION BOX PUSH-BUTTON SWITCH (AS NOTED) COR OPENER GARAGE DOOR OPENER GARAGE DOOR OPENER SMOKE ALARM & CARBON MONOXIDE ALARM LOW VOLTAGE/STRUCTURED WIRING PANEL |
| | | | SYMBOLS LEGEND FIONS: |
| | | | SYMBOLS LEGEND FIONS |
| | | | SYMBOLS LEGEND ICMS. 3-WAY ABOVE FINISH FLOOR DUMPLEX VOCCUPANCY SENSOR DIMPLEX WALL RECEPTACLE CACUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH COCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TITICLOCK DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET ENI SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET ENI SECTION I. USB AND DUPLEX COMBO RECEPTACLE ABOVE-COUNTER DUPLEX WALL RECEPTACLE ABOVE-COUNTER DUPLEX WALL RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DISHWASHER (UNDER-COUNTER) RECEPTACLE (AFCI/GFI) DUPLEX VALL RECEPTACLE (+30° AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR RECEPTACLE 220V WALL RECEPTACLE (+30° AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (FLUSH FLOOR RECEPTACLE 220V WALL RECEPTACLE (FLUSH FLOOR RECEPTACLE 220V WALL RECEPTACLE (FLUSH FLOOR RECEPTACLE 220V WALL RECEPTACLE (AS NOTED) DUPLEX HLOOR RECEPTACLE (AS NOTED) DUPLEX UALL SWITCH WALL-MOUNT LIGHT FIXTURE CELLING FAN / LIGHT FIXTURE RECESSED CELLING LIGHT FIXTURE RECESSED CELLING LIGHT FIXTURE CELLING FAN / LIGHT GANTED ANDITON BOX LED LINEAR PENDANT LED ROUND/SQUARE PENDANT LED RECESSED SLOT FIXTURE CELING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX LED LINEAR PENDANT LED RECESSED SLOT FIXTURE CELING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX PUSH-BUTTON SWITCH (AS NOTED) GARAGE DOOR OPENER SMOKE ALARM & CARBON MONOXIDE ALARM LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE) DATA/VOICE JACK (AS NOTED) TOKING CALLARM & CARBON MONOXIDE ALARM LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE) DATA/VOICE JACK (AS NOTED) TOKING CALARM & CARBON MONOXIDE ALARM LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE) DATA/VOICE JACK (AS NOTED) CARACE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) CARACE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) |
| | | NOTATION DEFINING AFFF D/DOS DP/WP DT R OS PC SS WP KET CEM N OS PC SS WP KET CEM N OS PC SS WP KET CEM N OS PC SS WP KET CEM N OS PC SS WP KET CEM N OS O | SYMBOLS LEGEND I(NS: 3-WAY ABOYE FINISH FLOOR DIMMER W/ OCCUPANCY SENSOR DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY INFRARED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL WAEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMELCCK ENERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTROHACUSBN OR EQUIVALENT ABOYE-COUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (LIGHT FIXTURE) FOURPLEX WALL RECEPTACLE (+10" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE (AS NOTED) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED SLOT FIXTURE CEILING-FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX JUNCTION BOX LED LINGAR PENDANT LED ROUND/SQUARE PENDANT LED ROUND/SQU |
| | | | SYMBOLS LEGEND IONS: 3-WAY ABOVE FINISH FLOOR DMMP PROOF OR WEATHER PROOF DMAL TECHNOLOGY INFRAED MOTOR RATED SWITCH OCCUPANCY SENSOR PHOTOCELL WACANCY SENSOR WATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMELCCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET ENI SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET ENI SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTRZOHACUSSW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE IDENWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE IDENWASHER (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) FOURPLEX WALL RECEPTACLE 220V WALL RECEPTACLE (+30" AFF, UNO) DUPLEX OVERHEAD RECEPTACLE DUPLEX FLOOR RECEPTACLE (FLUSH FLOOR E COR PORE-THRU) DUPLEX OVERHEAD RECEPTACLE (AS NOTED) FOURPLEX WALL SWITCH WALL-MOUNT SCONCE LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE CEILING-MOUNT LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE RECESSED CEILING LIGHT FIXTURE HANGING CEILING-MOUNT LIGHT FIXTURE HANGING CEILING MOUNT LIGHT FIXTURE GARAGE DOOR OPENER SENSOR/RECEIVER DUSH-BUTTON SWITCH (AS NOTED) DATA/VOICE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) CATA/VOICE JACK (AS NOTED) DATA/VOICE JACK (AS NOTED) CONTOR BOX LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE) DATA/VOICE JACK (AS NOTED) CATA/VOICE JACK (AS NOTED) CONTOR BOX WITH (1) DUPLEX, (1) DATA, ANI (1) TURE FEED (2 DUPLEX RECEPTACLES) |
| | | | SYMBOLS LEGEND TIONS: 3-WAY ABOVE FINISH FLOOR DIMMER W/ OCCUPANCY SENSOR DWAT PROOF OR WEATHER PROOF DWAT RECHNOLOGY INFRARED WOTOR RATED SWITCH OCCUPANCY SENSOR HOTOR RATED SWITCH VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY LIGHT SWITCH TIMECLOCK EMERGENCY NIGHT LIGHT AUTHORIZED KEY LIGHT SWITCH THECLOCATIONS, SEE SHEET EN.I SECTION I. HALF-SWITCHED DUPLEX WALL RECEPTACLE HALF-SWITCHED DUPLEX WALL RECEPTACLE AFCI LOCATIONS, SEE SHEET EN.I SECTION I. USB AND DUPLEX COMBO RECEPTACLE LEGRAND PTTR20HACUSBW OR EQUIVALENT ABOVE-COUNTER DUPLEX WALL RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE UDEX FLOOR RECEPTACLE (FLUSH FLOOR E OR POKE-THRU) GOR POKE-THRU) FOURPLEX WALL RECEPTACLE (AS NOTED) SINGLE WALL SWITCH WALL-MOUNT SCONCE LIGHT FIXTURE WALL-MOUNT LIGHT FIXTURE WALL-MOUNT LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE HANGING CELLING-MOUNT LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE HANGING CELLING LIGHT FIXTURE HANGING CELLING LIGHT FIXTURE RECESSED / PIVOT CELLING LIGHT FIXTURE HANGING CELLING LIGHT FIXTURE HANGING CELLING LIGHT FIXTURE RECESSED SLOT FIXTURE CELLING FAN / LIGHT (AS NOTED) GARAGE DOOR OPENER SENSOR/RECEIVER GARAGE DOOR OPENER GARAGE |
| | | | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR DIMMER W/ OCCUPANCY SENSOR - DAAT TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCEL - ULTRASCNIC - VACANCY SENSOR - WEATHER PROOF - WITTED KEY LIGHT SWITCH - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I HALF-SWITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I USB AND DUPLEX COMBO RECEPTACLE - LEGRAND PTTR20HACUSAN OR EQUIVALENT - ABOVE-COUNTER DUPLEX WALL RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - MICROWAVE RECEPTACLE (+30" AFF, UNO) - DUPLEX OVERHEAD RECEPTACLE - GOUNTER DUPLEX WALL RECEPTACLE - MICROWAVE RECEPTACLE (FLUSH FLOOR IL - OR POKE-THRU) - FOURPLEX WALL RECEPTACLE (AS NOTED) - DUPLEX OVERHEAD RECEPTACLE (AS NOTED) - SINGLE WALL SWITCH - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CEILING LIGHT FIXTURE - RECESSED C |
| | | | SYMBOLS LEGEND TIONS: - 3-WAY - ABOVE FINISH FLOOR DIMMER W/ OCCUPANCY SENSOR - DAMP PROOF OR WEATHER PROOF DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWITCH - OCCUPANCY SENSOR - PHOTOCEL ULTRASCNIC - VACANCY SENSOR - WEATHER PROOF - WATHER PROOF - WATHER PROOF - MIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I WALF-SNITCHED DUPLEX WALL RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I USB AND DUPLEX COMBO RECEPTACLE - AFCI LOCATIONS, SEE SHEET EN.I SECTION I USB AND DUPLEX COMBO RECEPTACLE - COUNTER DUPLEX WALL RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE - MICROWAVE RECEPTACLE (+100) - DUPLEX OFENHEAD RECEPTACLE \$ 220V WALL RECEPTACLE (+LUSH FLOOR RECEPTACLE - GORPLEX WALL RECEPTACLE (FLUSH FLOOR RECEPTACLE - MICROWAVE RECEPTACLE (FLUSH FLOOR RECEPTACLE & COR POKE-THRU) - FOURPLEX WALL RECEPTACLE (AS NOTED) - DUPLEX OFENHEAD RECEPTACLE (AS NOTED) - SUNGLE WALL SWITCH - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CELLING LIGHT FIXTURE - RECESSED CELLING LIGHT FIXTURE - WALL-MOUNT LIGHT FIXTURE - RECESSED CELLING LIGHT FIXTURE - RECESSED CELLING LIGHT FIXTURE - RECESSED CELLING LIGHT FIXTURE - RECESSED SLOT FIXTURE - LED UTILITY STRIP LIGHT - LED RUND/SQUARE PENDANT - LED UTILITY STRIP LIGHT - LED RUND/SQUARE PENDANT - LED UTILITY STRIP LIGHT - LED RUND/SQUARE PENDANT - LED UTILITY STRIP LIGHT - LED RUND/SQUARE PENDANT - LOOR BOX WITH (1) DUPLEX, (1) DATA, ANI (1) TV - VISED |

| | | GENERAL N | IOT |
|---|------------------------------|--|--|
| I. IT IS TH | E CONT | RACTORS/OWNERS/ | DEVI |
| INCORPOR | RATE IN 2 BUILD | I THE CONSTRUCTION | |
| CONSTRU | OT BE | DOCUMENTS ARE S USED FOR CONSTRI | JCTI |
| BIDS PER | RFORME | D BEFORE PERMIT | 1551 70R/ |
| | PRC | JECT SPEC | FIC |
| | | MENT: | EG |
| LOCATED IN END OF TH | A UTI | LITY CLOSET OR C DING, SEE BUILDING | N EX |
| AND COORE | JINATE <u>LE</u> QUIF | MITH ARCHITECTUR <u>PMENT:</u> | AL |
| CONDENSING OF THE BU | G UNITS | ARE LOCATED ON / ON THE ROOF, C | TH: DORI |
| ARCHITECT DISCONNECT | URAL S T AND : Al REG | ITE PLAN FOR LOC SERVICE OUTLET, S DUIREMENTS | ATIC BEE |
| EXTERIOR | | | |
| THE BUILDI | E LIGHI NG, SE RE SPEC | E LIGHTING / PHOT FIGHTING / PHOT | OME CAT |
| SOLAR: | | | |
| SOLAR PAN ORIENTATIC | IELS PR | COVIDED ON ROOF, TRUCTURE, SEE SO | |
| INTERFACE | REQUIR | EMENTS. | ATE |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TO THE | BUILDIN | G PANEL, UNO. | LAT |
| 2. WIRE CON PROVIDE | A MEA | NG UNITS TO THE L NS OF CIRCUIT INT 50' FROM THE CON | INIT ERR DEN |
| DETAIL E SERVICE | E2/EN.2. RECEP | A WEATHER-RESIS | DLIN STAN OCA |
| CONDENS THE SIDE | ING UNI E OF A | IT. WHERE CONDENS BUILDING OR ON T | SING HE F |
| RECEPTA CONDENS | CLE WI | THIN 25' CAN BE US ITS. IF PROVIDED, | SED WIRI |
| DISCONNI PRIOR TO | ECT ANI 2 INSTA | D SERVICE RECEPT | ALE |
| 3. ILLUMINA IDENTIFIC | TED AD | DRESS LIGHTS SHA REQUIREMENTS PER | ALL R AF |
| | | | |
| | | KEYNOT | ES |
| | DE COMB | INATION POWER/DAT | A FL |
| | | ITS FOR COMBINIAT | ION |
| 2 SLAB DOWN | POUR. (THROUG | CONDUIT/WIRING SH | ALL WITH |
| FLOOR | LUCAT | SHEETS FOR POWF | ER A |
| AT UT | ILITY C | LOSET(S). | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | SYMBOLS L | EG |
| NOTATION | DEFINIT | SYMBOLS L | EG |
| NOTATION 3 AFF D/DOG | | SYMBOLS L TIONS: 3-WAY ABOVE FINISH FLC | EG |
| NOTATION 3 AFF D/DOS DP/WP | | SYMBOLS L TIONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR DIAMP PROOF OR | EG |
| NOTATION 3 AFF D/DOS DP/WP DT IR M | | SYMBOLS L TIONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOP PATED SIA | EG OR J/ O WEA |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC | | SYMBOLS L 10NS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SIA OCCUPANCY SENSO PHOTOCELL | EG V OR V EA V ITC- DR |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SIA OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR | EG VN OR VNEA |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SM OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY | EG VALEA VITCH DR |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SK OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY | EG V OR V OR VITCH |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE | EG V OR V OAVEA |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE | EG VR VAEA |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SIA OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, | EG OR V O NEA IITCH DR LIGH |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR DUAL TECHNOLOGI INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, | EG OR OR VVEA ITCH ESEE USEE |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM NL LV | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTPOOF | |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM NL LV SYMBOLS: TC EM NL LV | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER W DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SW OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I | EG VR V OR VICO VICO VICO VICO VICO VICO VICO VICO |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM NL LV SYMBOLS: TC EM NL LV | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) | |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND | EG OR OK ITCH IIGH IESE DUSE COM IIGH IESE DUSE COM IIGH IESE DUSE COM IIGH IIGH |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: SYMBOLS: | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR20F ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE | EG VALAN ITCH ESEELLGH ESEELLGH ESEELLG ER- AL (|
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF | EG OR OV VITCH SEPT SEE UPL SEE OPTAC TAC |
| NOTATION 3 AFF D/DOS DP/WP DT R M OS PC US V WP KEY TC EM NL LV SYMBOLS: D M M M M M M M M M M M M M | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECE DUPLEX WALL RECE AEGRAND PTTR20F ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE DUPLEX OVERHFAT | EG OR OV VICA V |
| NOTATION 3 AFF D/DOS DP/WP DT R M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus \bigoplus | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER W DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SW OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-TUDIN | EG VALA VITCH |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: M M M M M M M M M M M M | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL R | EG OR OR VALA IIGH ESEE USE COLL DUPL ER- ICCEP ECE |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOS/ RECEPTACLE MICROWAVE RECEF 220V WALL RECEF 220V WALL RECEF DUPLEX OVERHEAI DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEF CONTENTION | EG OR OKA IIR LIGH ESSEPLE COLOR IIR IIR IIR IIGH ESSEPLE COLOR IIR IIGH ESSEPLE COLOR IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIR IIGH IIGH IIR IIR IIR IIR IIR IIR IIR II |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: TC EM NL LV SYMBOLS: C SYMBOLS: C C S C C S C C C C C C C C C C C C C | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL R S GFI PROTECTED SPECIAL PURPOSE | EG OR OA ITCH INR LIGH IESE DUSE ON ICCEP ICCEP ICCEP ICCEP ICCEP ICCEP ICCEP ICCEP |
| NOTATION 3 AFF D/DOS DP/WP DT R M OS PC US V WP KEY TC EM NL LV SYMBOLS: ↓ D ↓ W C S S C S S C S S C S S C S S C S S S C S S S S S S S S S S S S S | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR20F ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX VALL RECEP DUPLEX VERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT | |
| NOTATION 3 AFF D/DOS DP/WP DT M OS PC US V WP KEY TC EM NOS PC US V WP KEY TC EM NOS PC US V WP C S M OS PC US V WP C S M OS PC US V WP C S V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M OS PC US V M D C S M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC US V M M OS PC N M OS PC N M OS PC N M OS N M OS N M OS N M OS N M OS N M OS N M OS N M OS N M N M OS N N M N M OS N M OS N M N M OS N M N M N N M N N M N M N M N M N M N M N M N M N M N M N M N N N M N M N M N M N M N N N N | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER W DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SW OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT SCOL | EG OR ON UNALEA IIGH IEGE DEC SECOND IEGE DEC IIGH IEGE DEC IIGH I |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: M M M M M M M M M M M M | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH | EG OVALANCE LIGH ESEPTE DESCOL DES |
| NOTATION 3 AFF D D/DOS D D/WP D DIR M OS PCUS V WP K EY C US V WP K EY C WP K EY C WP K EY K EY C WP K EY K E | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER W DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEF 220V WALL RECEF DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH | EG OR OA ITCH ESSUPE CONSCIPTION IIGH ESSUPE CONSCIPTION ESSUPE CONSCIPTION ESSUPE CONSCIPTION ESSUPE CONSCIPTION ESSUPE |
| NOTATION 3 AFF D/DOS DP/WP DIR M OS PC US VWP KET CEM NL STMBOLS: WP KET CEM NC STMBOLS: WP KET CEM NC STMBOLS: | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR20F ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX VARLERECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH | EG OVALA IDR LIGH ESSUESCOLU DER- LIGH ESSUESCO |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RE SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH | EG OVALEA IDR LIGH IESE PLES OCCUP IDR IDR IDR IDR IDR IDR IDR IDR |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH RECESSED / PIVO | EG OVALANCE LIGH ESEPTE SOUSS COLL PTAC PTAC ECEPTE LIG TAC ECEPTE COL PTAC ECEPTE COL PTAC ECEPTE ECECT COL PTAC ECETE E |
| NOTATION 3 AFFF D D D D D D D D D D D D D D D D D D | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER & DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH RECESSED / PIVO HANGING CEILING- | EG OVALA ITCH ICCH I |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SIM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR20F ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP 220V WALL RECEP DUPLEX VERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH RECESSED / PIVO HANGING CEILING- UJNCTION BOX | EG OVALA IDR LIGH ESEPLE OVALA IDR LIGH ESEPLE OVALA IDR IDR IDR IDR IDR IDR IDR IDR |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAI DUPLEX OVERHEAI DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RE TED AT INTERIOR S GFI PROTECTED SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH RECESSED CEILING- WITH RE-INFORCEI JUNCTION BOX LED LINEAR PEND | EG OVALEA IDR LIGH IDR LIGH IDR IDR IDR IDR IDR IDR IDR IDR |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGI INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OUPLEX FLOOR RE OUPLEX WALL RECEP DUPLEX VERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH RECESSED CEILING WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT LIGH CEILING-MOUNT LIGH WALL-MOUNT LIGH WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH WALL-MOUNT SCOL WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING | EG DALAR LIGH LIGH LIGH LIGH LIGH LIGH LIGH LIGH |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX VVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL WALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH ARECESSED / PIVO HANGING CEILING- MICROWAVE RECEP SINGLE WALL SWIT MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING | EG OVAL LIGH EEGOLAL DURAL OF TAC |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX VALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOI WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOI WALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING CEI | EG OVALA LIGH EEGOLOGU DER CALON |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE DUPLEX OVERHEAT DUPLEX OVERHEAT DUPLEX WALL RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAT DUPLEX OVERHEAT DUPLEX ALL RECEP SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH ABOVE CEILING- MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH ABOVE CEILING- MICROWAVE RECEP SINGLE WALL SWIT MALL-MOUNT SCOL MALL-MOUNT SCOL MALL SCOL | EG OVALA IN LIGH EEST DE CALLO DE LA CALLO |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER // DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT SCOI WALL-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOI WALL-MOUNT SCOI MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MICROWAVE RECEP SINGLE WALL SWIT MALL-MOUNT SCOI MALL-MOUNT SCOI MALL SCO | EG DEE DEE DEE DEE DEE DEE DEE DEE DEE D |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SIA OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / LIG WITH RE-INFORCEI DUPLEX STORE | EG OVAL IT ICH ISS DISCOLUTION IN THE STATE STAT |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEF 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL MALL-MOUNT SCOL MALL MALL-MOUNT SCOL MALL MALL SCOL MAL | EG DEEDED |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE DUPLEX OVERHEAT DUPLEX OVERHEAT DUPLEX FLOOR RECEPT 220V WALL RECEP DUPLEX OVERHEAT DUPLEX FLOOR RECEPT SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL WALL-MOUNT SCOL WALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MITH RE-INFORCET DUPLEX SCOL CEILING FAN / LIG WITH RE-INFORCET DUSH-BUTTON SW GARAGE DOOR OP | EG DEE DEE DEE DEE DEE DEE DEE DEE DEE D |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, ISB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH INFRE-INFORCE SINGLE WALL SWIT WALL-MOUNT SCOL MALL-MOUNT SCOL MALL | EG DISCOLOUR LIGH EEGOLOUR CALDURE LIGH EEGOLOUR CALDURE CALDU |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL R S GFI PROTECTED SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI CIED LINEAR PEND CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI CIED LINEAR PEND CEILING FAN / LIG WITH RE-INFORCEI DUPLES FLOOR OR GARAGE DOOR OP GARAGE DOOR OP SMOKE ALARM & C | EG DIVERTICE LIGHT TACE ELOST CHARTER LIGHT TA |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT SCOL SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / LIG WALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL CUNTION BOX LED UTILITY STRI CEILING FAN / LIG WITH RE-INFORCED DUPLEX COMPONENT CEILING FAN / LIG WITH RE-INFORCED CUNTON BOX LED WINDIT SCOL CUNTON BOX LED WINDIT SCOL CEILING FAN / LIG WITH RE-INFORCED DUSH-BUTTON SW GARAGE DOOR OP SMOKE ALARM ¢ C | |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMER/DIMMER / DAMP PROOF OR / DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEPT 220V WALL RECEPT 220V WALL RECEPT DUPLEX OVERHEAT DUPLEX FLOOR RECEPT 220V WALL RECEPT 220V WALL RECEPT DUPLEX FLOOR RECEPT 220V WALL RECEPT DUPLEX FLOOR RECEPT 220V WALL RECEPT DUPLEX FLOOR RECEPT DUPLEX FLOOR RECEPT DUPLEX FLOOR RECEPT 2000 WALL RECEPT 2000 WA | EG DE |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT SCOL WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING FAN / LIG WITH RE-INFORCEI DUPLEX OVERHEAL MICROWAVE RECEP SINGLE WALL SWIT MALL-MOUNT SCOL MALL-MOUNT SCOL MALL MALL-MOUNT SCOL MALL MALL-MOUNT SCOL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL MALL | EG DE |
| | | SYMBOLS L IONS: 3-MAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANTCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR20H ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEPT 220V WALL RECEPT 220V WALL RECEPT 220V WALL RECEPT DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEPT SINGLE WALL SWITT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL WALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL CEILING FAN / LIG MITH RE-INFORCED DUPLEX OVERHEAD CEILING FAN / LIG MITH RE-INFORCED SINGLE WALL SWITT MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING FAN / LIG WITH RE-INFORCED SINGLE DOR ON GARAGE DOOR OP SMOKE ALARM ¢ C COW VOLTAGE/STIC DATA JACK (AS N DATA JACK (AS N | |
| | | SYMBOLS L IONS: 3-MAY ABOVE FINISH FLC DIMER/DIMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I OLISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP DUPLEX FLOOR RE OR POKE-THRU FOURPLEX WALL SWIT WALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / NIG RECESSED / PIVO HANGING CEILING MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / NIG RECESSED / PIVO MANDI RE-INFORCED CUNCTION BOX LED ROUND/SQUAR CEILING FAN / LIGH CEILING FAN / CIG CEILING FAN / LIGH CEILING FAN / LIGH CEILING FAN / LIGH CEILING FAN / CIG CEILING FAN / LIGH CEILING FAN / LIGH CEILING FAN / CIG CEILING | |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMITER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UNE GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL R S GFI PROTECTED SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH MALL-MOUNT SCOI WALL-MOUNT SCOI WALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / LIG WITH RE-INFORCEI JUNCTION BOX LED LINEAR PEND GARAGE DOOR OP SMOKE ALARM & C LOW VOLTAGE/STR (PROVIDE SERVICE DATA JACK (AS N TELEVISION / CAB | |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLC DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 SOFECIAL PURPOSE SINGLE WALL RECEP OUPLEX VERHEAD DUPLEX FLOOR REC OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / PIGE ANGING CEILING- MALL-MOUNT SCOI MALL-MOUNT SCOI MALL-MOUNT SCOI CEILING FAN / PIGE CEILING MOUNT LIGH CEILING MOUNT LIGH CEILING FAN / PIGE CEILING FAN / PIGE DUPLEX COUND/SQUAF CEILING FAN / PIGE DUPLEX FLOOR RECEP SMOKE ALARM & C DATA JACK (AS N ATA / VOICE JACK FURNITURE FEED O FURNITURE FEED O DIRECTIONAL COUNT DIRECTIONAL CO | |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLO DIMMER/DIMMER / DAMP PROOF OR I DUAL TECHNOLOGY INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AFCI LOCATIONS, HALF-SWITCHED D AFCI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAL DUPLEX OVERHEAL DUPLEX OVERHEAL DUPLEX OVERHEAL DUPLEX OVERHEAL DUPLEX FLOOR RE OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWIT WALL-MOUNT LIGH CEILING-MOUNT LIGH CEILING-MOUNT LIGH CEILING FAN / LIG WALL-MOUNT SCOL WALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL CEILING FAN / LIG CEILING FAN / LIG MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL CEILING FAN / LIG CEILING FAN / LIG MITH RE-INFORCEL DURCESSED CEILING MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL MALL-MOUNT SCOL COMPACE ALARM & COL CON VOLTAGE/STIC (PROVIDE SERVICE DATA/VOICE JACK TELEVISION / CAB FLOOR BOX WITH (1) TV FUSED HEAVY DUT DIRECTIONAL EXIT ARCHITECTURAL EXIT ANDING SELLING | |
| | | SYMBOLS L IONS: 3-WAY ABOVE FINISH FLO DIMMER/DIMMER / DAMP PROOF OR J INFRARED MOTOR RATED SM OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AUTHORIZED KEY IMERCIOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL REC AECI LOCATIONS, USB AND DUPLEX LEGRAND PTTR204 ABOVE-COUNTER I (AFCI/GFI) DISHWASHER (UND GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEPT 220V WALL RECEPT 2000 POKE-THRU) FOURPLEX WALL RECEPT 2000 POKE-THRU) 2000 POKE-THRU) 2000 POKE-THRU) 2000 POKE-THRU) 2000 POKE-THRU) 2000 POKE-THRU POKENT 2000 POKE-THRU POKENT 2000 POKE-THRU POKENT 2000 POKENT | |

| I. IT IS TH | E CONT | GENERAL NO |
|--|--|--|
| TO REVII INCORPO | EW ALL RATE II O BUILI | NOTES AND DETAIL N THE CONSTRUCTION DING DEPARTMENT A |
| CONSTRL SHALL N BIDS PEI | ICTION OT BE RFORMI | DOCUMENTS ARE SU USED FOR CONSTRU ED BEFORE PERMIT |
| RESPONS | | OF THE CONTRACT |
| ELECTRICAL | | DJECT SPECI |
| ELECTRIC A LOCATED IN END OF TH | AND LO N A UT E BUIL | W VOLTAGE SERVICE ILITY CLOSET OR ON DING, SEE BUILDING |
| MECHANICA | <u>L EQUII</u> G UNIT | <u>PMENT:</u> 5 ARE LOCATED ON |
| F THE BU ARCHITECT | ILDING URAL S T AND | / ON THE ROOF, CO DITE PLAN FOR LOCA SERVICE OUTLET, S |
| FOR GENER | AL REG | QUIREMENTS. |
| WHERE SIT THE BUILDI FOR FIXTUR | E LIGH [.] ING, SE RE SPE | TING IS PROVIDED B E LIGHTING / PHOTO CIFICATIONS AND LO |
| <u>SOLAR:</u> SOLAR PAN | IELS PI | ROVIDED ON ROOF, L |
| ORIENTATIC OTHERS FC INTERFACE | ON OF S OR LOC, REQUIT | STRUCTURE, SEE SO ATION AND COORDIN, REMENTS. |
| | | |
| | | |
| | | |
| | | |
| I. ALL FIXT | EX | FERIOR LAYOU |
| TO THE 2. WIRE CO | BUILDII NDENSI | NG PANEL, UNO. NG UNITS TO THE UI |
| AND NOT DETAIL E | OVER E2/EN.2 | 50' FROM THE CONE . A WEATHER-RESIS |
| CONDENS THE SIDI | RECEP BING UN E OF A | ITACLE SHALL BE LO IIT. WHERE CONDENS BUILDING OR ON TH |
| CONDENS TO THE | BUILDI | ITS. IF PROVIDED, V NG PANEL. COORDINA |
| PRIOR TO 3. ILLUMINA | O INST | ALLATION. DDRESS LIGHTS SHA |
| IDENTIFIC | LATION | REQUIREMENTS PER |
| | | KEYNOTE |
| PROVID PROVID | DE COME DE FINAI | BINATION POWER/DATA _ LOCATION. |
| 2 ROUTE SLAB DOWN | CONDU POUR. THROU | JITS FOR COMBINATI CONDUIT/WIRING SHA GH NFARFST WALL V |
| FLOOR | LOCAT | I SHEETS FOR POWE |
| AT UT | ILITY (| CLOSET(S). |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | SYMBOLS LE |
| NOTATION 3 AFF | | SYMBOLS LE |
| NOTATION 3 AFF D/DOS DP/WP | | SYMBOLS LE FIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DAMP PROOF OR W |
| NOTATION 3 AFF D/DOS DP/WP DT IR M | | SYMBOLS LE FIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR M - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSO - PHOTOCELL - ULTRASONIC |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KFY | | SYMBOLS LE |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM | | SYMBOLS LE FIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSO - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - MICHTURY |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigoplus | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR M - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigoplus | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: C C MBOLS: C C C MBOLS: C C C C C C C C C C C C C | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - MUTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DU AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H |
| NOTATION 3 AFF D/DOS DP/WP DT IR MOS PC US V WP KEY TC EM NL LV SYMBOLS: C MBOLS | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX (LEGRAND PTTR20H - ABOVE-COUNTER D (AFCI/GFI) |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OL - LEGRAND PTTR20H - ABOVE-COUNTER D - (AFCI/GFI) - DISHWASHER (UNDI |
| NOTATION 3 AFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NL LV SYMBOLS: IC IC IC IC IC IC IC IC IC IC | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DU AFCI LOCATIONS, S - HALF-SWITCHED DU - AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - ABOVE-COUNTER D - ABOVE-COUNTER D - ABOVE-COUNTER D - CARDAGE DISPOSA RECEPTACLE - MICROWIAVE DECOD |
| NOTATION 3 AFF D/DOS DP/WP DT IR MOS PC US V WP KEY TC EM ND SYMBOLS: OF DD DT IR MOS PC US V WP C SYMBOLS: OF DD DD C SYMBOLS: OF DD DD DD DD DD DD DD DD DD D | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - MIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OL - LEGRAND PTTR20H - ABOVE-COUNTER D - CARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP |
| NOTATION 3 AFFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NLV SYMBOLS: IR M IC IC IC IC IC IC IC IC IC IC | | SYMBOLS LE FIONS: - 3-MAY - ABOVE FINISH FLOC DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SMI - OCCUPANCY SENSOR - MOTOR RATED SMI - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - ABOVE-COUNTER D - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOP DEF |
| NOTATION 3 AFF D/DOS DP/WP DT IR OSC SS WP KEY CE NL SYMBOLS: SYMBOLS: | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LEGRAND PTTR20H - ABOVE-COUNTER D - CAFCI/GFI) - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL PI |
| NOTATION 3 AFF D/DOS PC US V WP TC ENL LV SYMBOLS: M D M M M M M M M M M M M M M | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LEGRAND PTTR20H - ABOVE-COUNTER DI - ABOVE-COUNTER DI - CARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RI CTED AT INTERIOR I - AS GFI PROTECTED - |
| NOTATION 3 AFFF D/DOS DP/WP DT IR M OS PC US V WP KEY TC EM NLV SYMBOLS: I I I I I I I I I I I I I | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI AFCI LOCATIONS, S - USB AND DUPLEX C - LEGRAND PTTR20H - ABOVE-COUNTER D - OISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RI CTED AT INTERIOR I AS GFI PROTECTED I - SPECIAL PURPOSE |
| NOTATION 3 AFF D/DOS DP/WP DT M OS C S S M M S S M M S S M M S S M M S S M M S S M M S S M M S S S M M S S S M M S S S M M S S S M M S S S S M M S S S S M M S S S S S S S S S S S S S | | SYMBOLS LE TIONS: - 3-MAY - ABOVE FINISH FLOC DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - ABOVE-COUNTER D - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX OVERHEAD - DUPLEX FLOOR REC - DUPLEX WALL RECEP - DUPLEX WALL RECEP - DUPLEX AVERHEAD - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT SCON |
| NOTATION 3 AFF D/DD/WP DIR OFCUS WETCENEL SYMBOLS: | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WACTY SENSOR - WALTASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - WIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - COUNTER - DUPLEX WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - WALL-MOUNT LIGH |
| NOTATION 3 AFF D/D/WP D/D D/WP D/D/WP D/D/WP NOSCUS > WP KTC EN RLZ SYMBOLS: | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI AFCI LOCATIONS, S - USB AND DUPLEX C LEGRAND PTTR20H - ABOVE-COUNTER D - COUNTER DI - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOR REC - MICROWAVE RECEP - DUPLEX WALL RECEP - DUPLEX WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT |
| NOTATION $3 \text{ AFF}_{D2}\text{ DP/WP}$ $D \text{ DP/WP}_{D2} \text{ DP/WP}_$ | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - UITRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LOW VOLTAGE - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - RECESSED CEILING |
| | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX O - LEGRAND PTTR20H - ABOVE-COUNTER DI - ABOVE-COUNTER DI - ABOVE-COUNTER DI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RI CTED AT INTERIOR I AS GFI PROTECTED - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - RECESSED CEILING - RECESSED CEILING |
| NOTATION 3 AFF D D D D IR M OSC 55 > WP YT CEN NL SI SYMBOLS: | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - PHOTOCELL - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL REC - AFCI LOCATIONS, S - USB AND DUPLEX OF - ABOVE-COUNTER D - DISHWASHER (UND) - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOR REC - MICROWAVE RECEP - DUPLEX OVERHEAD - DUPLEX WALL RECEP - DUPLEX OVERHEAD - DUPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - RECESSED / PIVOT - WALL-MOUNT LIGH - WALL - WALL - WALL - WALL - WALL - WALL - W |
| NOTATION 3 AFDOS DP/WP D DP/WP | | SYMBOLS LE SYMBOLS LE S-MAY - ABOVE FINISH FLOC DIMMER/DIMMER W - DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - USB AND DUPLEX OF - LEGRAND PTTR20H - ABOVE-COUNTER D - ABOVE-COUNTER D - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - RECESSED / PIVOT - HANGING CEILING-P WITH RE-INFORCE |
| | | SYMBOLS LE IONS: 3-WAY ABOVE FINISH FLOC DIMMER/DIMMER W DAMP PROOF OR W DUAL TECHNOLOGY INFRARED MOTOR RATED SWI OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY L ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY L TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S USB AND DUPLEX O LEGRAND PTTR20H ABOVE-COUNTER D AFCI LOCATIONS, S USB AND DUPLEX O LEGRAND PTTR20H ABOVE-COUNTER D AFCI LOCATIONS, S USB AND DUPLEX O LEGRAND PTTR20H ABOVE-COUNTER D AFCI LOCATIONS, S USB AND DUPLEX O LED LINEAR PENDA WALL-MOUNT LIGHT SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGHT WALL-MOUNT LIGHT WALL-MOUNT LIGHT HANGING CEILING-MOUNT LIG RECESSED CEILING HANGING CEILING-MOUNT LIG HANGING CEILING-MOUNT LIG |
| | | SYMBOLS LE IONS: 3 -WAY ABOVE FINISH FLOC DIMMER/DIMMER W DAMP PROOF OR W DUAL TECHNOLOGY INFRARED MOTOR RATED SWI OCCUPANCY SENSOR PHOTOCELL ULTRASONIC VACANCY SENSOR WEATHER PROOF AUTHORIZED KEY L TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S USB AND DUPLEX O LEGRAND PTTR20H AFCI/GFI) DISHWASHER (UNDI GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR REC DUPLEX OVERHEAD DUPLEX FLOOR REC OR POKE-THRU) FOURPLEX WALL RI CTED AT INTERIOR I AS GFI PROTECTED SPECIAL PURPOSE SINGLE WALL SWIT WALL-MOUNT LIGHT CEILING-MOUNT LIGHT WALL-MOUNT LIGHT MALL-MOUNT SCON WALL-MOUNT LIGHT AS GFI PROTECTED JUNCTION BOX LED LINEAR PENDA |
| | | SYMBOLS LE SYMBOLS LE S-WAY - ABOVE FINISH FLOC - DIMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - USB AND DUPLEX C - LEGRAND PTTR20H - ABOVE-COUNTER D - ABOVE-COUNTER D - CAFCI/GFI) - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - WALL-MOUNT SCON - WALCON - |
| | | SYMBOLS LE SYMBOLS LE S-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECL - AFCI LOCATIONS, S - HALF-SWITCHED DI - COUPLEX WALL RECEP - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX FLOOR REC - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT LIGH - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - WALL-MOUNT LIGH - WALL-MOUNT LIGH - WALL-MOUNT SCON - WALL-MOUNT LIGH - WALL-MOUNT LIGH - LED ROUND/SQUAR - LED UTILITY STRIF - LED RECESSED SLO - CEILING FAN / LIGH - WITH RE-INFORCED |
| | | SYMBOLS LE SYMBOLS LE 3 - WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W. - DAMP PROOF OR W - DUAL TECHNOLOGY - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - AFCI / CATIONS, S - USB AND DUPLEX O - LEGRAND PTTR20H - ABOVE-COUNTER DI - AFCI/GFI) - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOR REC - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD DUPLEX FLOOR REC - SPECIAL PURPOSE - SINGLE WALL SWITT - WALL-MOUNT LIGH - SPECIAL PURPOSE - SINGLE WALL SWITT - WALL-MOUNT LIGH - CEILING-MOUNT LIG - RECESSED CEILING - WALL-MOUNT LIGH - WITH RE-INFORCED - JUNCTION BOX - LED LINEAR PENDA - LED LINEAR PENDA - LED RECESSED SLO - CEILING FAN / LIGH - UFIN RE-INFORCED - DUPLEX FLOOR REC - DUPLEX FLOOR REC - DUPLEX OVERHEAD - DUPLEX FLOOR REC - SINGLE WALL SWITT - WALL-MOUNT LIGH - CEILING FAN / LIGH - WITH RE-INFORCED - LED RECESSED SLO - CEILING FAN / LIGH - UFIN RE-INFORCED - DUPLEX FLO SWITT - WALL-MOUNT SCON - WALL-MOUNT SCO |
| | | SYMBOLS LE IONS: 3-WAY ABOVE FINISH FLOC DIMMER/DIMMER W. DUAP PROOF OR M DUAP PROOF OR M OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY L TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S USB AND DUPLEX OF LEGRAND PTTR20H AFCI LOCATIONS, S USB AND DUPLEX OF LEGRAND PTTR20H AFCI LOCATIONS, S USB AND DUPLEX OF AFCI LOCATIONS, S USB AND DUPLEX AFCI LOCATIONS AFCI LOCATIONS AF |
| | | SYMBOLS LE SYMBOLS LE S-3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER WA DAMP PROOF OR W DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - AFCI LOCATIONS, S - USB AND DUPLEX O LEGRAND PTTR20H - AFCI LOCATIONS, S - USB AND DUPLEX O - LED AND DUPLEX O - COUNTER D - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEPT - 220V WALL RECEPT - DUPLEX OVERHEAD - DUPLEX OVERHEAD - DUPLEX FLOOR REC - MICROWAVE RECEPT - DUPLEX OVERHEAD - DUPLEX OVERHEAD - DUPLEX FLOOR REC - SINGLE WALL SWITT - WALL-MOUNT LIGHT - SPECIAL PURPOSE - SINGLE WALL SWITT - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - LED UTILITY STRIF - LED UTILITY STRIF - LED RECESSED SLO - OR PORE-THRU SUNT - MARAGE DOOR OPE - SMOKE ALARM ¢ C. |
| | | SYMBOLS LE SYMBOLS LE S-3-WAY - ABOVE FINISH FLOC DIMER/DIMMER W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL REC - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX (LEGRAND PTTR20H - AFCI/GFI) - DISHWASHER (UNDI - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEPT - 220V WALL RECEPT - 220V WALL RECEPT - DUPLEX OVERHEAD - DUPLEX FLOOR REC - MICROWAVE RECEPT - DUPLEX FLOOR REC - MICROWAVE RECEPT - DUPLEX WALL RECEPT - DUPLEX OVERHEAD - DUPLEX FLOOR REC - SINGLE WALL SWITT - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - LED ROUND/SQUAR - LED UTILITY STRIF - LED RECESSED / PIVOT - MIGN FAN / LIGHT - UED LINEAR PENDA - LED UTILITY STRIF - LED RECESSED SLO - CEILING FAN / LIGHT - MALL-MOUNT SCON - WALL-MOUNT SCON - WALL - CEILING FAN / LIGHT - SON - WALL - CEILING FAN / LIGHT - SON - WALL - CEILING FAN / LIGHT - SON - WALL - CEIL |
| | | SYMBOLS LE IONS: 3 - WAY ABOVE FINISH FLOC DIMMER/DIMMER W DAMP PROOF OR W DUAL TECHNOLOGY INFRARED MOTOR RATED SWI OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY L TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S LEGRAND PTTR20H ABOVE-COUNTER D GARBAGE DISPOSA RECEPTACLE MICROWAVE RECEP 220V WALL RECEP DUPLEX OVERHEAD DUPLEX FLOOR REC OR POKE-THRU) FOURPLEX WALL RECEP DUPLEX FLOOR REC OR POKE-THRU) FOURPLEX WALL RECEP SINGLE WALL SWITT WALL-MOUNT SCON WALL-MOUNT LIGHT CEILING-MOUNT LIGH CEILING-MOUNT LIG RECESSED / PIVOT HANGING CEILING-M WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT LIGHT CEILING-MOUNT LIGHT CEILING-MOUNT LIGHT AG GFI PROTECTED I SINGLE WALL SWITT HANGING CEILING-M WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT LIGHT CEILING-MOUNT LIGHT CEILING-MOUNT LIGHT CEILING-MOUNT LIGHT CEILING-MOUNT LIGHT CEILING PONDA HANGING CEILING-M WITH RE-INFORCED JUNCTION BOX LED UTILITY STRIF LED RECESSED SLO CEILING FAN / LIGHT GARAGE DOOR OPE GARAGE DOOR OPE SMOKE ALARM ¢ CA LOW VOLTAGE/STRIC POXA JACK (AS NO |
| | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC - DIMMER/DIMMER W. DAMP PROOF OR W - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - ULTRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX (- LEGRAND PTTR20H - ABOVE-COUNTER D - AFCI LOCATIONS, S - USB AND DUPLEX (- LEGRAND PTTR20H - ABOVE-COUNTER D - GARBAGE DISPOSA - RECEPTACLE - SINGLE WALL RECEP - 220V WALL RECEP - 220V WALL RECEP - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SPECIAL PURPOSE - SINGLE WALL SWITT - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - RECESSED CEILING - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING FAN / LIGH - WALL-MOUNT SCON - WALL-MOUNT |
| | | SYMBOLS LE IONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DAMP PROOF OR M - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSO - PHOTOCELL - ULTRASONIC - VACANCY SENSOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX (- LEGRAND PTTR20H - ABOVE-COUNTER D - GARBAGE DISPOSA RECEPTACLE - MICROWAVE RECEPT - 220V WALL RECEPT - DUPLEX OVERHEAD - DUPLEX OVERHEAD - DUPLEX FLOOR REC - MICROWAVE RECEPT - 220V WALL RECEPT - DUPLEX OVERHEAD - DUPLEX OVERHEAD - DUPLEX FLOOR REC - SPECIAL PURPOSE - SINGLE WALL SWITT - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING-MOUNT LIGHT - MALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING FAN / NIGHT - LED UTILITY STRIF - LED LINEAR PENDA - LED LINEAR PENDA - LED LINEAR PENDA - MALL-MOUNT SCON - WALL-MOUNT SCON - WALL - CEILING FAN / CABL - STOCK ALARM & CA - CEILING FAN / CABL - FURNITURE FEED (|
| | | SYMBOLS LE TIONS: - 3-WAY - ABOVE FINISH FLOC DIMMER/DIMMER W. - DUAL TECHNOLOGY - INFRARED - MOTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECI - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OF - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECIP - AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX OF - AFCI LOCATIONS, S - USB AND DUPLEX OF - ABOVE-COUNTER D - GARBAGE DISPOSA - MICROWAVE RECEP - 220V WALL RECEP - DUPLEX OVERHEAD - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - DUPLEX FLOOR REC - OR POKE-THRU) - FOURPLEX WALL RECEP - SINGLE WALL SWITC - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - RECESSED CEILING - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - CEILING-MOUNT LIGH - WITH RE-INFORCED - JUNCTION BOX - LED LINEAR PENDA - MITH RE-INFORCED - MOKE ALARM & CA - CEILING FAN / LIGH - TUSH-BUTTON SWIT - MARAGE DOOR OPE - SMOKE ALARM & CA - CHATA JACK (AS NO - DATA JACK (AS NO - DATA JACK (AS NO - DATA JACK (AS NO - DATA/VOICE JACK - TELEVISION / CABL - FLOOR BOX WITH (|
| | | SYMBOLS LE IONS: - 3-MAY - ABOVE FINISH FLOC - DIMMER/DIMMER W. - DUAL TECHNOLOGY - NUAL TECHNOLOGY - NUAL TECHNOLOGY - NOTOR RATED SWI - OCCUPANCY SENSOR - WACANCY SENSOR - AUTHORIZED KEY L - TIMECLOCK - EMERGENCY - NIGHT LIGHT - LOW VOLTAGE - DUPLEX WALL RECH - AFCI LOCATIONS, S - USB AND DUPLEX C - LEGRAND PTTR20H - AFCI LOCATIONS, S - USB AND DUPLEX C - COUNTER D - AFCI LOCATIONS, S - USB AND DUPLEX C - COUNTER D - AFCI LOCATIONS, S - USB AND DUPLEX - LEGRAND PTTR20H - SPECIAL PURPOSE - SINGLE WALL RECEPT - UDPLEX OVERHEAD - DUPLEX FLOOR REC - GRABAGE DISPOSA - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGHT - WALL-MOUNT SCON - WALL-MOUNT LIGHT - WALL-MOUNT SCON - WALL-MOUNT LIGHT - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGHT - CEILING-MOUNT LIGHT - CEILING FAN / LIGH - TIME - INFORCED - SINGLE WALL SWITH - LED RECESSED / PIVOT - HANGING CEILING-PE - JUNCTION BOX - LED RECESSED / PIVOT - HANGING CEILING-PE - GARAGE DOOR OPE - SMOKE ALARM & C. - CON VOLTA SERVICE - CON VOLTA SERVICE - MOKE ALARM & C. - CEILING FAN / LIGH - CEILING FAN / LIGH |
| | | SYMBOLS LE IONS: 3-WAY ABOVE FINISH FLOC DIMMER/DIMMER W. DAMP PROOF OR W. DUAL TECHNOLOGY INFRARED MOTOR RATED SMI OCCUPANCY SENSOR WEATHER PROOF AUTHORIZED KEY L TIMECLOCK EMERGENCY NIGHT LIGHT LOW VOLTAGE DUPLEX WALL RECI AFCI LOCATIONS, S HALF-SWITCHED DI AFCI LOCATIONS, S USB AND DUPLEX ON LEGRAND PTTR20H AFCI LOCATIONS, S USB AND DUPLEX ON LEGRAND PTTR20H AFCI LOCATIONS, S USB AND DUPLEX ON LEGRAND PTTR20H AFCI LOCATIONS, S USB AND DUPLEX ON AFCI LOCATIONS, S USB AND DUPLEX DUPLEX OVERHEAD DUPLEX OVERHEAD CEILING-MOUNT LIGH AS GFI PROTECTED IN ABOVE-COUNT SCON WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT SCON WALL-MOUNT LIGH CEILING FAN / LIGH HANGING CEILING-M WITH RE-INFORCED JUNCTION BOX LED LINEAR PENDA LED RECESSED CEILING PUSH-BUTTON SWITH GARAGE DOOR OPE SMOKE ALARM & C. CEILING FAN / LIGH COMOVIDA SERVICE DATA JACK (AS NO ATA JACK (AS NO DATA/VOICE JACK TELEVISION / CABL FUENTION FOR DIT ARCHITOR DOX WITH (1) TY FUSED HEAVY DUT DIRECTIONAL EXIT ARCHITOR DOX WITH (1) TY ENDER HEAVY DUT |
| | | SYMBOLS LE SYMBOLS LE S-MAY - ABOVE FINISH FLOC - DIMMER/DIMMER MJ - DAMP PROOF OR M - DUAL TECHNOLOGY - INFRARED - MUTOR RATED SWI - OCCUPANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - UITRASONIC - VACANCY SENSOR - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - WEATHER PROOF - AUTHORIZED KEY L - TIMECLOCK - MICROMAVE RECEP - AUTHORIZED KEY L - TIMECLOCK - MICROWAVE RECEP - DUPLEX WALL RECIP - AFCI LOCATIONS, S - HALF-SWITCHED DI AFCI LOCATIONS, S - HALF-SWITCHED DI - AFCI LOCATIONS, S - MALF-SWITCHED DI - AFCI LOCATIONS, S - MALF-SWITCHED DI - AFCI LOCATIONS, S - MALF-SWITCHED DI - AFCI LOCATIONS, S - USB AND DUPLEX - LEGRAND PTTR20H - ABOVE-COUNTER D - ABOVE-COUNTER D - ABOVE-COUNTER D - ABOVE-COUNTER D - ABOVE-COUNTER D - ABOVE-COUNTER D - DUPLEX VOERHEAD - DUPLEX FLOOR REC - CRECESSED VERHEAD - DUPLEX FLOOR REC - SPECIAL PURPOSE - SINGLE WALL SWIT - WALL-MOUNT SCON - WALL-MOUNT SCON - WALL-MOUNT LIGH - CEILING-MOUNT LIGH - WALL-MOUNT SCON - UED LINEAR PENDA - LED UTILITY STRIF - LED RECESSED / PIVOT - HANGING CEILING-M - WITH RE-INFORCED - SMOKE ALARM & C - CEILING FAN / LIGH - WITH RE-INFORCED - SMOKE ALARM & C - CEILING FAN / LIGH - WOUTA SECSED - SMOKE ALARM & C - CEILING FAN / LIGH - WOUTA SECSED - SMOKE ALARM & C - CHENCIN A CABL - CON VOLTA SECVICE - DATA JACK (AS MO - TELEVISION / CABL - FUSED HEAVY DUT - ARCHITECTURAL EXIT - CHERGENCY LIGHT |

STANDARD NOTES AND SPECIFICATIONS

2.3 WASTE SYSTEMS

| I. GEI | I. GENERAL REQUIREMENTS: | | | | | | | | | | |
|--------|---|-----------------------|----------|------------|------------|------------|------------|---------|---------|--|--|
| 1.1. | 1.1. WASTE PIPING SIZED IN ACCORDANCE WITH TABLE BELOW, SEE UPC TABLE 703.2 FOR ADDITIONAL LENGTHS/SIZES. | | | | | | | | | | |
| | NOMINAL PIPE SIZES: | | I 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 6" | | |
| | AIN | MAX FIXTURE UNITS | 1 | 1 | 8 | 14 | 35 | 216 | 720 | | |
| | DR, | MAX LENGTH | 45'-0" | 65'-0" | 85'-0" | 148'-0" | 212'-0" | 300'-0" | 510'-0" | | |
| | NT | MAX FIXTURE UNITS | 1 | 8 | 24 | 48 | 84 | 256 | 750 | | |
| | <e <<="" td=""><td>MAX LENGTH 1,2</td><td>45'-0"</td><td>60'-0"</td><td>120'-0"</td><td>180'-0"</td><td>212'-0"</td><td>300'-0"</td><td>510'-0"</td><td></td></e> | MAX LENGTH 1,2 | 45'-0" | 60'-0" | 120'-0" | 180'-0" | 212'-0" | 300'-0" | 510'-0" | | |
| | 1. | ONE-THIRD OF ALLOWABL | E LENGTH | MAY BE INS | STALLED HO | DRIZONTALL | Y, INCREAS | E ONE | | | |

NOMINAL SIZE WHERE EXCEEDED 2. MAX LENGTH OF VENT NOT APPLICABLE WHERE SIZE INCREASED ONE NOMINAL SIZE FOR ENTIRE LENGTH OF VENT

1.2. ALL SANITARY SEWER VENT PIPE PENETRATIONS SHALL TERMINATE AT A MINIMUM DISTANCE OF 10'-0" FROM ANY DUTSIDE AIR INTAKE AND MINIMUM 3'-0" FROM ANY OPENING INTO CONDITIONED SPACES WITHIN THE BUILDING. 1.3. VERIFY LOCATION OF SOLAR PANELS (OR FUTURE SOLAR ZONE, WHERE OCCUR) PRIOR TO CONSTRUCTION. DO NOT PENETRATE ROOF WITHIN 3'-O" OF PANEL, ADJUST ROOF PENETRATIONS AS NEEDED. WHERE PENETRATIONS CANNOT BE ADJUSTED OR CONFLICT OCCURS, CONTACT HARRIS & SLOAN PRIOR TO INSTALLATION. NOTE THAT SOLAR PANEL LOCATION VARIES BASED ON ORIENTATION OF STRUCTURE. SEE SOLAR PLANS, PROVIDED BY OTHERS.

1.4. ROOF PENETRATIONS TO BE LOCATED OUTSIDE ANY FIRE RATED ROOF AREAS, REFER TO ARCHITECTURAL PLANS. 1.5. GROUP AND ROUTE VENT PENETRATIONS TO THE REAR ELEVATION OF PITCHED ROOF AREAS WHEREVER POSSIBLE TO MINIMIZE VISIBILITY FROM THE FRONT ELEVATION. 1.6. TOTAL CROSS-SECTIONAL AREA OF VENTS EXITING BUILDING MUST MEET/EXCEED CROSS SECTIONAL AREA OF SEWER

LATERAL 2. MATERIALS: ALL MATERIALS SHALL COMPLY WITH CPC SECTION 701 \$ 903 AND SHALL BE LISTED WITH AN APPROVED LISTING AGENCY (EX. ASTM) 2.1. BELOW GRADE WASTE AND VENT:

2.1.1. BELOW GRADE PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS, ASPHALTIC COATED. JOINTS SHALL BE MADE WITH NEOPRENE SLEEVES AND STAINLESS STEEL BANDS.

2.1.2. MINIMUM SIZE OF ALL WASTE PIPING BELOW GRADE SHALL BE 2". 2.2. ABOVE GRADE VENT PIPING:

2.2.1. VENT PIPE 3" AND LARGER TO BE SERVICE CAST IRON PIPE AND FITTINGS OR SCHEDULE 40 GALVANIZED STEEL PIPE WITH BLACK IRON FITTINGS. 2.3. ABS-DWV WASTE PIPE:

2.3.1. ABS-DWV PIPE AND FITTINGS MAY BE USED WHEN APPROVED BY LOCAL JURISDICTION. 2.3.2. PIPE AND COUPLINGS SHALL BE MANUFACTURED OF MATERIALS CONFORMING TO ASTM D2661.

2.3.3. PLASTIC SOLVENT CEMENT FOR PLASTIC PIPE SHALL CONFORM TO ASTM D2235

2.4. STORMWATER AND ABOVE GRADE WASTE: 2.4.1. SERVICE WEIGHT CAST IRON PIPE AND FITTINGS, NO-HUB (OR EQUAL), OR ABS-DWV PIPE, EXCEPT WASTE FROM URINALS TO BE CAST IRON

2.5 CONDENSATE DRAIN PIPING: 2.5.1. TYPE M COPPER TUBING AND FITTINGS OR SCHEDULE 40 GALVANIZED STEEL PIPE AND MALLEABLE IRON FITTINGS. PVC PIPE IF APPROVED BY LOCAL JURISDICTION

3. CONSTRUCTION REQUIREMENTS: 3.1. GENERAL REQUIREMENTS:

3.2. BELOW GRADE WASTE AND VENT: 3.2.1. ALL HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED WITH A UNIFORM 2% SLOPE UNLESS NOTED OTHERWISE. MINIMUM SIZE OF ALL WASTE PIPING BELOW GRADE SHALL BE 2".

3.3. ABOVE GRADE VENT: 3.3.1. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6" ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT. 3.3.2. EACH VENT TO EXTEND THROUGH FLASHING AND TERMINATE VERTICALLY MIN 6" ABOVE ROOF, MIN 1'-0" FROM A

VERTICAL SURFACE. 3.3.3. PLASTIC PIPING EXPOSED TO SUNLIGHT TO BE PROTECTED WITH A WATER BASED SYNTHETIC LATEX PAINT. 3.4. ABS-DWV WASTE PIPE:

3.4.1. INSTALL IN ACCORDANCE W/ MANUFACTURERS INSTALLATION INSTRUCTIONS, PIPES SHALL BE DEBURRED AND FREE OF FOREIGN MATERIALS PRIOR TO MAKING SOLVENT CEMENT JOINTS.

3.5. STORMWATER AND ABOVE GRADE WASTE: 3.5.1. ALL HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED WITH A UNIFORM 2% SLOPE UNLESS NOTED OTHERWISE.

3.6. CONDENSATE DRAIN PIPING: 3.6.1. ROUTE CONDENSATE PIPING FROM EQUIPMENT TO NEAREST APPROVED RECEPTOR. ALL CONDENSATE SYSTEMS SHALL ERMINATE TO GRADE OR INTO THE STORM DRAINAGE SYSTEM, UNLESS NOTED OTHERWISE, AND SHALL OTHERWISE BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES. CONNECT ALL PIPING TO EQUIPMENT PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS.

3.7. CLEANOUTS: 3.7.1. CLEANOUTS SHALL BE PROVIDED ON HORIZONTAL DRAINAGE PIPING AT THE LOWEST FLOOR LEVEL OF THE BUILDING AND SHALL BE LOCATED AT THE UPPER TERMINAL OF EACH RUN OF DRAINAGE PIPING EXCEEDING 5 FEET HORIZONTAL DISTANCE. ADDITIONALLY, CLEANOUTS SHALL BE PROVIDED AT EACH LAV & FOR EVERY 100 FEET OF HORIZONTAL PIPING OR FRACTION THEREOF AND ANY HORIZONTAL PIPE EXCEEDING 135 DEGREES OF AGGREGATE

3.7.2. CLEANOUTS SHALL BE PLACED ABOVE THE FIXTURE CONNECTION FITTING, IN THE WALL NEAR THE CONNECTION BETWEEN THE BUILDING DRAIN AND THE BUILDING SEWER, OR INSTALLED OUTSIDE THE BUILDING IN GRADE WITH THE CLEANOUT EXTENDED TO GRADE. 3.7.3. CLEANOUTS SHALL BE SIZED PER THE FOLLOWING TABLE:

| SIZE OF PIPE | SIZE OF CLEANOUT | THREADS (PER IN) |
|--------------|------------------|------------------|
| 1/2" | 1 1/2" | /2 |
| 2" | 1 1/2" | /2 |
| 2 1/2" | 2 1/2" | 8 |
| 3" | 2 1/2" | 8 |
| 4" | 3 1/2" | 8 |

3.8. SYSTEM TESTING 3.8.1. COMPLETE SYSTEMS WITHIN THE BUILDING SHALL BE TESTED WITH AIR OR WATER IN ACCORDANCE WITH CPC

SECTION 712 TO THE SATISFACTION OF THE INSPECTOR. 3.8.2. TEST ALL WASTE AND VENT PIPING EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE TIGHTLY CLOSED, EXCEPT THE HIGHEST POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY PLUGGED, EXCEPT THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND EACH SECTION SHALL BE FILLED WITH WATER, BUT N SECTION SHALL BE TESTED WITH LESS THAN 10 FT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 15 MINUTES BEFORE THE INSPECTION STARTS. 3.8.3. AN AIR TEST CAN BE USED IN LIEU OF THE WATER TEST, EXCEPT THAT PLASTIC PIPE SHALL NOT BE TESTED WITH THE TEST SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO ANY SUITABLE OPENING AND AFTER CLOSING ALL OTHER INLETS AND OUTLETS TO THE SYSTEM, FORCING AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A COLUMN OF MERCURY TEN 10

INCHES IN HEIGHT. THE PRESSURE SHALL BE HELD WITHOUT INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT

3.1 FIXTURES

2. LAVATORIES AND SINKS

LEAST 15 MINUTES.

1. GENERAL REQUIREMENTS 1.1. FIXTURE CONNECTION SIZES AND FIXTURE UNIT COUNTS SIZED IN ACCORDANCE WITH TABLE BELOW, UNO ON PLANS FLOW RATES USED FOR PIPE SIZING ONLY, FIXTURE FLOW RATES TO BE AS SPECIFIED IN NOTES 2-4 OF THIS SECTION.

| FIVTURE | PROB FLOW RATE (GPM) | | FIVTURE | PROB | FLOW RATE (GPM) | | | | |
|--|----------------------|-----|---------|------|---------------------|------------------|------|-----|------|
| TIXTURE | OF USE | WS | СМ | HM 1 | FIXTURE | OF USE | WS | CM | HM 1 |
| WATER CLOSET (WC) | 1.0% | 3.0 | 3.0 | 0.0 | CLOTHES WASHER (CW) | 5.5% | 3.5 | 3.5 | 3.5 |
| LAVATORY (LAV) | 2.0% | 1.2 | 1.2 | 1.0 | SINK (SINK) | 2.0% | 2.2 | 2.2 | 1.8 |
| BATHTUB (BT) | 1.0% | 5.5 | 5.5 | 4.0 | DISHWASHER (DW) | 0.5% | 1.3 | 0.0 | 1.3 |
| SHOWER (SH) | 4.5% | 2.0 | 2.0 | 1.5 | REFRIGERATOR (IM) | 1.0% | 1.0 | 1.0 | 0.0 |
| TUB/SHOWER (TS) ² | 1.0% | 5.5 | 5.5 | 4.0 | HOSE BIBB (HB) | N/A ³ | 2.04 | 2.0 | 0.0 |
| I. HW DEMAND REDUCTIONS, WHERE THEY OCCUR, ARE BASED ON FIXTURE WATER MIXING REQUIREMENTS. | | | | | | | | | |

TUB/SHOWER FLOWS AND PROBABILITIES ARE CONSERVATIVELY BASED ON TUB FIXTURE RUNNING. HOSE BIBB DEMANDS ARE CONSIDERED SEPARATE FROM BUILDING DEMAND AND ADDED TO THE TOTAL FLOWS. I.O GPM DEMAND IS ADDED FOR EVERY HOSE BIBB AFTER THE FIRST

1.2. ALL PLUMBING FIXTURES SHALL BE SELECTED AND APPROVED BY BUILDER.

1.3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND MOUNTING HEIGHTS. 1.4. ALL FIXTURES SHALL BE FURNISHED WITH ANGLE-STOP OR OTHER APPROVED SHUT-OFF VALVES. VALVES MAY BE IN

SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS. 1.5. WHERE FIXTURE COMES IN CONTACT WITH WALL OR FLOOR, JOINT SHALL BE MADE WATERTIGHT

1.6. FIXTURES W/ SLIP JOINT CONNECTIONS TO HAVE MIN 12"X12" WORKING SPACE WITHOUT OBSTRUCTIONS FOR INSPECTION AND REPAIR. WHERE CONCEALED, PROVIDE MIN 12"X12" ACCESS PANEL. 1.7. AT ADA ACCESSIBLE PLUMBING FIXTURES, PROVIDE WRAP ON WASTE & WATER PIPING UNDER FIXTURE. USE PLUMBEREX P-EXTREME" ONE-PIECE PROTECTORS WITH FULL ROTATION OPTION AND 3-M DUAL LOCK FASTENERS SECURED WITH SELF-LOCKING NYLON STRIPS.

2.1. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER

MINUTE AT 20 PSI. 2.2. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED I.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION 2.3. METERING FAUCETS IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE. 3. SHOWERS & TUBS:

3.2. SINGLE SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWFRHFADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR OWERHEADS. WHEN SINGLE SHOWER FIXTURES ARE SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT CEED I.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD. 3.3. SHOWER & TUB-SHOWER COMBOS SHALL HAVE INDIVIDUAL CONTROL VALVES THAT PROVIDE SCALD AND THERMAL SHOCK

PROTECTION AND SHALL DELIVER MIXED WATER AT 120°F MAX 4. WATER CLOSETS 4.1. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE,

AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHED AND ONE FULL FLUSH. 4.2. THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. 5. HOSE BIBB: 5.1. ALL HOSE BIBBS SHALL BE 3/4" AND MOUNTED AT 18" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

5.2. ALL HOSE BIBBS TO HAVE A NON-REMOVABLE ANTI-SIPHON DEVICE (BACKFLOW PREVENTOR OR VACUUM BREAKER). 5.3. HOSE BIBBS SHALL NOT BE SUPPORTED BY PEX TUBING. HOSE BIBBS SHALL BE ANCHORED TO PREVENT STRAIN ON PEX 6. FLOOR DRAIN:

6.1. FLOOR DRAIN TO BE APPROVED-TYPE W/ WATERTIGHT JOINT IN FLOOR, MIN I" AIR GAP, AND APPROVED-TYPE STRAINER W/ WATERWAY EQUIVALENT TO CROSS-SECTIONAL AREA OF TAILPIECE.

6.2. INSTALL 1/2" TRAP PRIMER AT ALL FLOOR DRAINS. AT BUILDER OPTION, WITH APPROVAL FROM AUTHORITY HAVING JURISDICTION, PROSET TRAP GUARD OR ICC APPROVED EQUIVALENT MAY BE USED AS ALTERNATE TO TRAP PRIMER

| | GENERAL REQUIREMEN |
|----|--|
| ١. | GAS SYSTEM DESI FIXTURE IN SYSTE ON CUBIC FEET PE BTUH SHALL BE C |
| 2. | GAS PIPING SIZED APPLICABLE TABL PRESSURE. |

| APPLICA PRESSU | ABLE TABL RE. | - E |
|----------------------|------------------|-----|
| ATURAL GAS | TABLE 121 | 5 |
| NOMINAL PIPE SIZE | 1/2" | |
| 250'-0" | 30 | |
| | | |

| SEE AP | PLICABLE | Ι |
|----------------------|-----------|---|
| NATURAL GAS | TABLE 121 | 5 |
| NOMINAL PIPE SIZE | 1/2" | |
| DESIGNATION | SDR 9.3 | |
| 250'-0" | 35 | |

| . MATER | RIALS: |
|---------------|---|
| 2.1. BE BO | LOW GRADE GAS NDED EPOXY ST |
| 2.2. AB | OVE GRADE GAS |
| 2.3. JO | INTS: |
| 2.3.1. | PIPE SIZES 2 1/ |
| 2.3.2. | PIPE SIZES 2" + |
| 2.3.3. | ALL UNDERGRO |
| . CONST | RUCTION REQUIR |
| 3.I. BE | LOW GRADE PIP |
| 3.1.1. | GAS PIPING SHA PIPING TO BE I |
| 3.1.2. | GAS PIPING SHA AVOID CONTACT ADDITION, PROV |
| 3.1.3. | TRENCHES SHAL FREE OF ROCKS TOPSOIL MAY E |
| 3.1.4. | AN ELECTRONIC WITH THE PIPIN |
| 3.1.5. | WHERE TRENCH |
| 3.2. TE | ST GAS PIPING |
| 3.2.1. | TEST AT NO LE |
| 3.2.2. | FOR WELDED PI |

| .4. | PROVIDE A SEDIM INSTALLED AS CL SEDIMENT TRAPS FIREPLACES. |
|-----|---|
| | |

30 MINUTES.

| 2.2 | WATER | S |
|-----|-------|---|
| | | |

| GEI | NERAL REQUIREMEN |
|--------|--|
| Ι. | ALL WATER SIZED WISORT METHOD. I FIXTURE USAGE AN |
| 2. | HOT WATER TEMP |
| 1.2.1. | PROVIDE CODE LAVATORIES DE |
| 1.2.2. | WATER HEATER |
| З. | EACH RESIDENTIAL CONTINUOUS FLOW |
| 4. | MIN PRESSURE SUP PRESSURE OR 8 P |
| MA | TERIALS: |
| .1. | PLASTIC PIPING S |
| 2.1.1. | BELOW GRADE PER ASTM DI78 |
| 2.1.2. | ABOVE GRADE CPVC PER AST |
| 2.1.3. | CPVC PIPE MUS TO CONSTRUCT |
| .2. | COPPER PIPING SY |
| 2.2.1. | BELOW GRADE WROUGHT COPF |
| 2.2.2. | ABOVE GRADE ANSI BI6.22 WR OPTION, TIN-AI |
| 00 | NSTRUCTION REQUI |
| .1. | TEST HOT & COLD |
| 3.1.1. | TEST PRESSUR FOR THE TESTS |
| 3.1.2. | EXCEPT FOR PL |
| 3.1.3. | THE TEST SHA |
| .2. | JOINTS AND FITTIN |
| 3.2.1. | JOINTS, FITTIN PARTITION WAL |
| 3.2.2. | WHENEVER POS |
| .3. | PLASTIC PIPING S |
| 3.3.1. | INSTALLATION S |
| 3.3.2. | SUPPORT HORIZ VERTICAL PEX TUBING. BEND TUBING IS BEN |
| 3.3.3. | PVC ABOVE GR OTHER PROTEC |
| 3.3.4. | MAINTAIN MIN I VENTS, AND HE |
| 3.3.5. | ALL INSTALLAT WEEK. THE PIP STAND FOR NO ENOUGH TO FUL PEX PIPE WHER |
| | AT THE TIME (|

| | | D. Ci E) | ATE ONSI XCEF | , T UMF PT | HE PT B1 | |
|--------|----------------------------------|--|---------------------|-------------------|------------------|--------|
| 3.3.7. | F C M | RIO F T RIT | R TO HE I TEN | D IS PER CE | 55 8 M 8 R | I T |
| 3.3.8. | ۲ ۲ ۱۱ | HE IE <i>O</i> ICLL | BUIL R S IDIN | _DII HE G 1 | NG FI TH | ۱ E |
| 3.3.9. | A | NY HAL | CON | TR. E S | AC SUI | 2 |
| 8.4. | NON- CON ⁻ CONI | -ME ⁻ FINU DUC ⁻ | TALI OUS TOR | _IC CC SH | P DR IAI | F |
| 8.5. | GEN | ERAI | _ RE | EQU | IR | E |
| 3.5.1. | F | PIPE | INS | ULA | ١T | 0 |
| 3.5.1 | .1. | IN | ISUL | ATI | Ξ. | Þ |
| | | | | | | _ |

| | | INS | 3U | LΑ | τı | C |
|-----------|-------------|--------------------|------------|-----------|----------|----|
| | | | ١. | 1" | ' ŀ | 1, |
| 3.5.1.2. | ļ | INSI T <i>O</i> | UL BI | AT E | E | |
| 3.5.1.3. | I | PIP | Е | IN | 5U | L |
| 3.5.1.3. | 1. | | PII SH | | NG _L | Ē |
| 3.5.1.3.: | 2. | | PII INS | PIN 5P | √G EC | T |
| 3.5.1.3.3 | 3. | | PI | 911 | ١G | |
| 3.5.1.3. | 4. | | PI | 911 | ١G | |
| 3.5.2. | INLI LAB | NE Self | Sł ED | UH " | тс 50 | ۶F |

| GENER | AL REQUIR |
|----------|------------------------|
| I. PIF | E INSULAT |
| .1.1. | INSULATE |
| | PIPE DIA |
| | INSULATIO |
| | I. I" M |
| .1.2. | INSULATE TO BE I" I |
| .1.3. | PIPE INSUL |
| 5.1.3.1. | PIPING SHALL |
| 5.1.3.2. | PIPING |

| 0.0.1.0 | • • • | SHALL |
|----------|-----------------|------------------|
| 3.5.1.3. | .2. | PIPING INSPEC |
| 3.5.1.3. | .3. | PIPING |
| 3.5.1.3. | .4. | PIPING |
| 3.5.2. | INLINE LABEL | SHUTO ED "SO\ |
| 3.5.3. | PROVI | DE MECI |

2.1 GAS SYSTEMS

IGNED PER CPC SECTION 1215, BRANCH LENGTH METHOD. TRUNK SIZED FROM METER TO FURTHEST EM, BRANCHES SIZED FROM METER TO FURTHEST FIXTURE ON BRANCH. ALL LOADS LISTED ARE BASED ER HOUR (CFH). WHERE CONVERSION TO BRITISH THERMAL UNITS PER HOUR (BTUH) IS REQUIRED 1,000 CONSIDERED EQUIVELENT TO I CFH.) IN ACCORDANCE WITH TABLE BELOW FOR DELIVERY PRESSURE BASED ON CPC TABLES. SEE ES IN CPC SECTION 1215 FOR ADDITIONAL LENGTHS/SIZES AND ALTERNATE MATERIAL/DELIVER

| NATURAL GAS | TABLE 121 | 5.2(1), 7. | 0 W.C. | | | | | | | | |
|---|-----------|------------|----------|-----|--------|-----|--------|------|------|------|-------|
| NOMINAL PIPE SIZE | 1/2" | 3/4" | Γn | /4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 5" | 6" |
| 250'-0" | 30 | 63 | 119 | 244 | 366 | 704 | 1120 | 1980 | 4050 | 7320 | 11900 |
| | | | | | | | | | | | |
| 1.3. UNDERGROUND GAS PIPING SIZED IN ACCORDANCE WITH TABLE BELOW FOR DELIVERY PRESSURE BASED ON CPC TABLES. SEE APPLICABLE TABLES. | | | | | | | | | | | |
| NATURAL GAS | TABLE 121 | 5.2(20), | 7.0 W.C. | | | | | | | | |

| 3/4" | 1 " | /4" | 1 1/2" | 2" | 3" | 4" |
|--------|--------|--------|--------|--------|--------|--------|
| SDR II | SDR II | SDR 10 | SDR 11 | SDR 11 | SDR 11 | SDR II |
| 71 | 127 | 221 | 333 | 598 | 1660 | 3200 |
| | | | | | | |

PIPING SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) PER ASTM D2513 OR SCHEDULE 40 FUSION TEEL PER ASTM A53. HDPE PIPE TO BE LABELED "ĠAS" ÁND "ASTM D2513" AS PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A53, WITH MALLEABLE STEEL FITTINGS.

1/2" DIA AND LARGER SHALL HAVE WELDED JOINTS

' AND SMALLER MAY BE THREADED OR WELDED AT CONTRACTOR'S OPTION. OUND GAS PIPING SHALL BE WELDED REGARDLESS OF SIZE OR MATERIAL

JIREMENTS: PING REQUIREMENTS

HALL BE INSTALLED WITH A COVER NOT LESS THAN 18". WHERE 18" COVER CANNOT BE PROVIDED, GAS INSTALLED IN CONDUIT OR BRIDGED (SHIELDED). HALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE TO ALLOW MAINTENANCE, AND PROTECT AGAINST DAMAGE FROM PROXIMITY TO OTHER STRUCTURES. IN VIDE SUFFICIENT CLEARANCE FROM ANY SOURCE OF HEAT LL BE GRADED SO PIPING HAS FIRM, SUBSTANTIALLY CONTINUOUS BEARING ON BOTTOM OF TRENCH, AND DEBRIS THAT WOULD ABRADE THE PIPING. ADDITIONAL MATERIAL SUCH AS LOAM, SAND, OR BE USED TO CREATE A LEVEL SURFACE. CALLY CONTINUOUS, CORROSION-RESISTANT, TRACER WIRE (MIN AWG 14) OR TAPE SHALL BE BURIED

NG TO FACILITATE LOCATING, ONE END SHALL BE BROUGHT ABOVE GRADE. I IS FLOODED TO CONSOLIDATE BACKFILL, EXERCISE CARE TO ENSURE PIPING IS NOT FLOATED FROM RING ON BOTTOM OF TRENCH. G PER CPC SECTION 1213.3 LESS THAN 10 PSI GAUGE PRESSURE FOR NO LESS THAN 15 MINUTES.

FOR WELDED PIPING AND FOR PIPING CARRYING GAS AT PRESSURE IN EXCESS OF 14 INCHES WATER COLUMN PRESSURE, THE TEST PRESSURE SHALL BE NOT LESS THAN 60 PSI AND SHALL BE CONTINUED FOR NO LESS THAN

3.2.3. VERIFY NO PERCEPTIBLE DROP OF PRESSURE. 3.3. PROVIDE AN EARTHQUAKE-ACTUATED GAS SHUT-OFF VALVE CERTIFIED BY THE CALIFORNIA STATE ARCHITECT PER CPC MENT TRAP AT THE LOCATION OF WATER HEATER AND THE FAU. A SEDIMENT TRAP MUST BE LOSE AS POSSIBLE TO THE GAS INLET OF THE APPLIANCE IF IT IS NOT PART OF THE APPLIANCE. 6 ARE NOT REQUIRED AT RANGES, CLOTHES DRYERS, DECORATIVE VENTED APPLIANCES OR GAS

SYSTEMS

) IN ACCORDANCE WITH CPC APPENDIX A WITH PEAK DEMAND LOADS DETERMINED USING THE MODIFIED FIXTURE FLOW RATES AND PROBABILITIES ARE BASED ON APPENDIX M AND MANUFACTURER DATA. ND FLOW REQUIREMENTS ARE PRESENTED IN SECTION 3.1. PERATURE NOT TO EXCEED 110° F AT ANY FIXTURE.

APPROVED THERMOSTATIC MIXING VALVE, SET AT 110°F, FOR ALL TUBS, SHOWERS AND ANY ESIGNATED FOR PUBLIC USE. THERMOSTAT IS NOT TO BE USED AS THE INDIVIDUAL FIXTURE TEMPERATURE LIMITER. DWELLING UNIT IS REQUIRED TO BE METERED. METERS ARE DISPLACEMENT TYPE, SIZED FOR MAX EXPECTED THROUGH THE DOMESTIC WATER SYSTEM. JPPLIED TO THE MOST REMOTE FIXTURE SHALL BE GREATER OF FIXTURES REQUIRED WORKING

SYSTEMS (HOT & COLD): E PIPE FOR POTABLE WATER MAY BE PEX TUBING PER ASTM F876 WITH NON-METALLIC FITTINGS, PVC 785, OR CPVC PER ASTM D2846. E PIPE FOR POTABLE WATER MAY BE PEX TUBING PER ASTM F876 WITH NON-METALLIC FITTINGS OR TM D2846. JST MEET REQUIREMENTS OF CPC 604.1.1 AND BE APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR YSTEMS (HOT & COLD):

POTABLE WATER PIPING SHALL BE TYPE 'L' ASTM B88 ANNEALED COPPER TUBING AND ANSI BI6.22 PER FITTINGS USING SILVER SOLDER AND NON-CORROSIVE FLUX. POTABLE WATER PIPING SHALL BE COPPER TYPE 'L' ASTM B88 HARD DRAWN COPPER TUBING AND ROUGHT COPPER FITTINGS USING SILVER SOLDER AND NON-CORROSIVE FLUX. AT CONTRACTOR'S ANTIMONY (95-5) SOLDER MAY BE USED FOR SIZES LESS THAN 3". IREMENTS:

WATER PIPING IN ACCORDANCE WITH CPC 609.4 RE SHALL NOT BE LESS THAN THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED. THE WATER S SHALL BE OBTAINED FROM A POTABLE WATER SOURCE OF SUPPLY. PLASTIC PIPING, A 50 PSI AIR PRESSURE TEST MAY BE SUBSTITUTED FOR THE WATER TEST. ALL BE RUN FOR A MIN OF 15 MINUTES WITHOUT SHOWING EVIDENCE OF LEAKAGE.

NGS, AND MULTI-PORT MANIFOLDS SHALL BE INSTALLED IN CEILING, MIN 2'-0" CLEAR OF ANY INTERIOR ALL. DO NOT INSTALL IN WALLS. DSSIBLE LOCATE MULTI-PORT MANIFOLDS OVER WET AREA.

YSTEMS: SHALL BE DONE BY CERTIFIED INSTALLERS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ZONTAL PEX TUBING UP TO I" NOMINAL SIZE AT 32" OC, OVER I" NOMINAL SIZE AT 48" OC. SUPPORT TUBING AT EVERY FLOOR AND MID POINT OF EACH FLOOR. ALLOW 1/8" SLACK PER 1'-0" OF INSTALLED TUBING IN DIRECTION OF COIL, MAINTAIN MIN BEND RADIUS OF 8 TIMES NOMINAL PIPE SIZE. WHERE IT AGAINST COIL DIRECTION INCREASE BEND RADIUS BY 3 TIMES. RADE MAY NOT EXCEED 24", WRAP ALL ABOVE GROUND PVC PIPE WITH MIN 0.04" THICK TAPE OR TION FROM UV DEGRADATION.

12" VERTICAL, 6" HORIZONTAL FROM SOURCES OF HEAT INCLUDING RECESS LIGHT FIXTURES, GAS EATING APPLIANCES. FIONS OF THE INITIAL PLUMBING PIPING SHALL BE FLUSHED TWICE OVER A PERIOD OF AT LEAST ONE SYSTEM SHALL BE FIRST FLUSHED FOR AT LEAST 10 MINUTES AND THEN FILLED AND ALLOWED T

LESS THAN I WEEK, AFTER WHICH ALL THE BRANCHES OF THE PIPE SYSTEM MUST BE FLUSHED LONG LLY EMPTY THE CONTAINED VOLUME. THIS PROVISION SHALL NOT APPLY TO THE INSTALLATION OF E IT REPLACES AN EXISTING PIPE SYSTEM OF ANY MATERIAL OF FILL, EACH FIXTURE SHALL HAVE A REMOVABLE TAG APPLIED STATING:

THIS NEW PLUMBING SYSTEM WAS FIRST FILLED AND FLUSHED ON _____ (DATE) BY _____ (NAME). THE STATE OF CALIFORNIA REQUIRES THAT THE SYSTEM BE FLUSHED AFTER STANDING AT LEAST ONE WEEK AFTER THE FILL DATE SPECIFIED ABOVE. IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE, THE WATER MUST BE ALLOWED TO RUN FOR AT LEAST TWO MINUTES PRIOR TO USE FOR HUMAN CONSUMPTION. THIS TAG MAY NOT BE REMOVED PRIOR TO THE COMPLETION OF THE REQUIRED SECOND FLUSHING, THE BUILDING OWNER OR OCCUPANT.

SUING A BUILDING PERMIT TO INSTALL PLASTIC PIPE, THE BUILDING OFFICIAL SHALL REQUIRE AS PART 11TTING PROCESS THAT THE CONTRACTOR, OR THE APPROPRIATE PLUMBING SUBCONTRACTORS, PROVIDE FIFICATION THAT HE OR SHE WILL COMPLY WITH THE FLUSHING PROCEDURES SET FORTH IN THE CODE. OFFICIAL SHALL NOT GIVE FINAL PERMIT APPROVAL OF ANY PLASTIC PLUMBING INSTALLATION UNLESS IDS THAT THE MATERIAL HAS BEEN INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CODE, E REQUIREMENTS TO FLUSH AND TAG THE SYSTEMS. TOR OR SUBCONTRACTOR FOUND TO HAVE FAILED TO COMPLY WITH THE FLUSHING REQUIREMENTS BJECT TO THE PENALTIES OF THE HEALTH AND SAFETY CODE.

PIPING USED BELOW GRADE, OUTSIDE OF BUILDING FOOTPRINT SHALL HAVE AN ELECTRICALLY RROSION-RESISTANT BLUE INSULATED COPPER TRACER WIRE, OR OTHER APPROVED CONDUCTOR. LL NOT BE LESS THAN 14 AWG AND SUITABLE FOR DIRECT BURIAL EMENTS:

ALL HOT WATER PIPING FROM HEAT SOURCE TO FIXTURE AS NOTED BELOW: 3/4" 1" 1 1/4" 1" 1 1/4" METER 1/2"

ON WALL THICKNESS 1/2" *O*R 1" 1 1/2" IALL THICKNESS REQUIRED AT ALL RECIRCULATION PIPES AND ALL PIPES TO KITCHEN FIXTURES THE FIRST 5'-0" OF COLD WATER PIPES FROM TANKED WATER HEATER, INSULATION WALL THICKNESS

1 1/2"

LATION MAY BE OMITTED AT THE FOLLOWING LOCATIONS: THAT PENETRATES FRAMING MEMBERS, FOR THE DISTANCE OF THE FRAMING PENETRATION. INSULATION BUTT SECURELY AGAINST FRAMING MEMBERS. INSTALLED IN WALLS, WHERE ALL REQUIREMENTS ARE MET FOR COMPLIANCE WITH QUALITY INSULATION

TION (QII) INSTALLED IN ATTIC WITH MINIMUM 4" THICKNESS OF ATTIC INSULATION ON TOP OF PIPING. BETWEEN FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE. DEE VALVES BELOW GRADE SHALL BE INSTALLED IN A CONCRETE BOX WITH A CAST IRON HINGED TOP

". ALL ABOVE GRADE SHUTOFF VALVES 2" AND LARGER SHALL BE FULL PORT BALL VALVES. ECHANICAL WATER HAMMER ARRESTER AT HOT AND COLD WATER AT ALL FIXTURES TO ABSORB HIGH PRESSURE RESULTING FROM THE QUICK CLOSURE OF THESE VALVES. WATER HAMMER ARRESTERS SHALL BE APPROVED MECHANICAL DEVICE IN ACCORDANCE WITH THE APPLICABLE STANDARDS REFERENCED IN CPC TABLE 1701.1 AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING VALVES.

1.1 DESIGN CRITERIA

PRESSURE DROP 0.5 IN. W.C.

I. GENERAL PROJECT INFORMATION: I.I. PROJECT SHALL CONFORM TO THE 2022 CPC, ITS REFERENCED STANDARDS, AND APPLICABLE LOCAL BUILDING DEPARTMENT STANDARDS. 1.2. DESIGN CRITERIA ARE AS FOLLOWS:

GAS TYPE NATURAL DESIGN PRESSURE | DELIVERY PRESSURE LESS THAN 2 PSI MIN WORKING PRESSURE MAX VELOC

1.2 GENERAL NOTES

SPECIFIC GRAVITY

- 1. SCOPE: I.I. THE PROJECT DOCUMENTS MAY NOT BE USED IN A LOCATION OTHER THAN THAT DESIGNATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. 1.2. THIS IS A "BUILDER'S SET" PRODUCED SOLELY FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR. 1.3. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY. THEY ARE
- NOT EXTENSIVELY DETAILED NOR ARE COMPLETE SPECIFICATIONS PROVIDED. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEWHERE WITHIN THE PLAN SET. FOR ITEMS, METHODS AND/OR MATERIALS NOT SPECIFIED WITHIN THE SET, THE MIN REQUIREMENT OF HE APPLICABLE CODE SHALL GOVERN. THE ENGINEER PROVIDES NO WARRANTY OR GUARANTEE ON THE FINAL PROJECT, NOR DUTY TO ANY PERSON OR ENTITY
- BEYOND THE AFOREMENTIONED LIMITED INFORMATION OF THESE PLANS. 1.5. FIRE SPRINKLER SYSTEMS ARE DESIGNED SEPARATELY AND ARE TO BE INSTALLED UNDER A SEPARATE PERMIT 2. CONTRACTOR REQUIREMENTS:
- 2.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- 2.2. CONTRACTOR SHALL FIELD VERIFY ALL WORK CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO DIMENSIONS, ELEVATIONS, PIPE SIZES, INVERT ELEVATIONS, POINTS OF CONNECTION, FIXTURES, EQUIPMENT, STRUCTURAL ELEMENTS & MATERIALS.
- 2.7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OR ARCHITECT FOR ANY REQUIRED DIMENSIONS NOT SHOWN. DRAWINGS & DETAILS WITHIN THIS SET SHALL NOT BE SCALED FOR ANY PURPOSE. 2.8. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF ALL TRENCHES AND VERIFY THE LOCATION & ADEQUACY OF
- SIZE & DEPTH OF EXISTING PLUMBING UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK OR ORDERING ANY MATERIALS. 2.9. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL.
- 210 CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT RAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING
- THAT IS IN CONFLICT, UNTIL CONFLICT IS RESOLVED BY THE AFFECTED PARTIES. 2.11. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE ENGINEER.
- 2.12. THE GENERAL CONTRACTOR AND ITS SUB-CONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS THAT ARE SUBMITTED TO THE ENGINEER OF RECORD FOR ITS REVIEW DO NOT CONSTITUTE "IN WRITING". CHANGES TO THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS
- BECOME THE RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES. 2.13. THE HERS RATER AND THE CONTRACTOR SHALL SUBMIT ALL THE REQUIRED AND CURRENTLY APPROVED FORMS TO THE REQUIRED PARTIES AFTER TESTING OR INSTALLATION. A REGISTERED COPY OF REQUIRED FORMS SHALL BE SUBMITTED PRIOR TO THE FINAL INSPECTION, SIGNED BY THE CERTIFIED INSTALLER AND THE HERS RATER FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING AS REQUIRED.
- 2.14. ALL HIGH VOLTAGE POWER WIRING, DISCONNECTS, AND CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. ALI LOW VOLTAGE CONTROL WIRING FOR PLUMBING EQUIPMENT TO BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. 2.15. CONTRACTOR SHALL RESTORE ALL DAMAGE RESULTING FROM THEIR WORK AND ADJUST, CLEAN, REPAIR, OR REPLACE

1.3 TYPICAL ABBREVIATIONS

| A/A ABV | ATTIC ACCESS ABOVE | DBL | DOUBLE | (N) | NEW |
|------------|-----------------------------|-------|-----------------------------|-----------|----------|
| ABV | ABOVE | | | · · · | I A LL A |
| | | DFU | DRAINAGE FIXTURE UNIT | NFTA | NATIONA |
| AFF | ABOVE FINISHED FLOOR | DW | DISHWASHER | | ASSOCIA |
| ALT | ALTERNATE | (A) | EXISTING | NTS | ΝΟΤ ΤΟ |
| ANSI | AMERICAN NATIONAL | EA | EACH | <i>OC</i> | ON CEN |
| | STANDARDS INSTITUTE | ELEV | ELEVATION | PED | PEDEST |
| ASTM | AMERICAN SOCIETY FOR | EQ | EQUAL | PERP | PERPEN |
| | TESTING AND MATERIALS | f | CFM's | PL | PLATE |
| BBQ | BARBECUE | F | FAHRENHEIT | POC | POINT C |
| BLKG | BLOCKING | FAU | FORCED AIR UNIT | PSI | POUNDS |
| BLW | BELOW | FCO | FLOOR CLEAN OUT | REQ'D | REQUIRE |
| ВТИ | BRITISH THERMAL UNIT | F/L | FAN/LIGHT COMBINATION | SAD | SEE AR |
| BTU/H | BTU PER HOUR | FU | FIXTURE UNIT(S) | SMACNA | SHEET I |
| C-PRE | COLD WATER PRE LOOP | GA | GAUGE | | CONDITI |
| CALGREEN | CALIFORNIA GREEN BUILDING | GALV | GALVANIZED | | NATIONA |
| | STANDARDS | GPM | GALLONS PER MINUTE | SOV | SHUT O |
| СВС | CALIFORNIA BUILDING CODE | HB | HOSE BIB | SQ FT | SQUARE |
| CEC | CALIFORNIA ELECTRICAL CODE | HOOD | KITCHEN HOOD VENT | STD | STANDA |
| CFH | CUBIC FEET PER HOUR | HORIZ | HORIZONTAL | T¢B | TOP & E |
| CFM | CUBIC FEET PER MINUTE | HVAC | HEATING, VENTILATION, AND | TYP | TYPICAL |
| CL | CENTERLINE | | AIR CONDITIONING | UNO | UNLESS |
| CLR | CLEAR | НМ | HOT WATER | \vee | VENT |
| CMC | CALIFORNIA MECHANICAL CODE | HWR | HOT WATER RETURN | VERT | VERTICA |
| CONT | CONTINUOUS | IBC | INTERNATIONAL BUILDING CODE | V(R) | VENT R |
| COTG | CLEAN OUT TO GRADE | ICC | INTERNATIONAL CODE COUNCIL | VTR | VENT TO |
| CPC | CALIFORNIA PLUMBING CODE | IM | ICE MACHINE | VTM | VENT TO |
| CRC | CALIFORNIA RESIDENTIAL CODE | LAV | LAVATORY | WС | WATER |
| СМ | COLD WATER (LINE) | LPG | LIQUEFIED PETROLEUM GAS | WC0 | WASTE |
| СМ | CLOTHES WASHER (FIXTURE) | MFR | MANUFACTURER | MH | WATER |
| (D) | DOWN | MAX | MAXIMUM | WSFU | WATER |
| DIA | DIAMETER | MIN | MINIMUM | # | POUND |
| | | | | | |

1.4 GENERAL PLUMBING SYSTEM REQUIREMENTS

1. SYSTEM DESIGN & GENERAL PROJECT REQUIREMENTS: I.I. DESIGN IS BASED ON THE SITE AND CODE CRITERIA LISTED IN SECTION I.I.

- 1.2. DRAWINGS SHOWING LOCATIONS OF NEW EQUIPMENT AND PIPING ARE DIAGRAMMATIC AND JOB CONDITIONS WILL NOT ALWAYS PERMIT THEIR INSTALLATION EXACTLY AS SHOWN. HOWEVER, DESIGN SHALL BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS AND BUILDING CONSTRUCTION PERMITS. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL PROVIDE FITTINGS AND ACCESSORIES REQUIRED TO MEET ACTUAL CONDITIONS AND BUILDING ON OT ACTUAL CONDITIONS WHETHER SHOWN OR NOT. 2. MATERIALS, EQUIPMENT & LABELING REQUIREMENTS:
- 2.1. DESIGN SPECIFICATIONS FOR EQUIPMENT ARE BASED ON THE MANUFACTURER'S SPECIFICATIONS (WHERE APPLICABLE) AT TIME OF DESIGN. MANUFACTURER RESERVES THE RIGHT TO MODIFY/DELETE EQUIPMENT OR THE PRINTED EFFICIENCY RATINGS. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY EQUIPMENT RATINGS MEET RATINGS SPECIFIED ON PLANS AND HAVE CURRENT AHRI CERTIFICATE.
- 2.2. ANY APPLIANCE TYPE FOR WHICH THERE IS A STATEWIDE OR FEDERAL STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS MAY BE INSTALLED ONLY IF THE APPLIANCE IS LISTED WITHIN THE APPLIANCE EFFICIENCY DATABASE. 2.3. ALL PIPES, FITTINGS, FIXTURES, SOLDER FLUX SHALL BE CERTIFIED BY AN ANSI ACCREDITED THIRD PARTY AS BEING IN COMPLIANCE WITH STATE & FEDERAL LEAD CONTENT REGULATIONS.
- 2.3.1. PIPING AND MATERIALS SHALL NOT EXCEED A WEIGHTED AVERAGE LEAD COUNT OF MORE THAN 0.25% 2.3.2. IT IS THE INTENT THAT ALL FIXTURES SPECIFIED ARE LEAD FREE PRODUCTS. LEAD FREE FIXTURES SHALL BE PROVIDED REGARDLESS OF THE SPECIFIED MODEL NUMBER. 2.4. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT AND OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER.
- 3. GENERAL INSTALLATION REQUIREMENTS: 3.1. INSTALL ALL EQUIPMENT, MATERIALS, APPLIANCES, AND MANUFACTURED COMPONENTS IN ACCORDANCE WITH CODE CRITERIA SPECIFIED IN SECTION 1.1 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. A COPY OF THE INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE TO THE INSPECTOR AT THE TIME OF INSPECTION, WHERE A CONFLICT OCCURS BETWEEN PLANS AND MANUFACTURER'S INSTRUCTIONS, THE MOST STRINGENT REQUIREMENTS APPLY.
- 3.2. COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION & AVOID UNNECESSARY DELAYS OR INTERFERENCE WITH OTHER TRADES. VERIFY EQUIPMENT REQUIREMENTS & LOCATIONS PRIOR TO INSTALL AND CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED.
- 3.3. ALL PIPING PASSING UNDER OR THROUGH THE BUILDING FOUNDATION MUST MEET THE REQUIREMENTS OF THE STRUCTURAL CONSTRUCTION DOCUMENTS AND SHALL BE INSTALLED AS FOLLOWS: 3.3.1. PIPES PASSING BELOW FOOTINGS SHALL BE MIN OF 12" CLEAR BOTTOM OF FOOTING TO TOP OF PIPE.
- 3.3.2. PIPES PASSING THROUGH FOUNDATION SHALL BE SLEEVED, SLEEVE SHALL BE PVC 2" LARGER THAN OUTER DIAMETER OF PIPE. ANNULAR SPACE SHALL BE PACKED WITH OAKUM AND CAULKED AT BOTH ENDS. 3.3.3. DO NOT INSTALL PIPES PARALLEL IN FOOTING OR WITHIN SLAB.
- 3.3.4. WRAP ALL COPPER WATER PIPE UNDER FLOOR OR BELOW GRADE WITH TWO LAYERS OF PABCO-WRAP (OR EQUAL). WRAP WATER, WASTE, AND GAS PIPING THROUGH THE SLAB WITH 1/2" THICK FIBERGLASS, MIN 2" ABOVE ¢ BELOW SLAB SURFACE.
- 3.4. ALL PIPING PASSING THROUGH THE SUPERSTRUCTURE TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. 3.4.1. PENETRATIONS IN FRAMING TO BE ONE NOMINAL SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE, UNO. ALL CUTTING, NOTCHING, BORING OF FRAMING MUST MEET REQUIREMENTS OF STRUCTURAL CONSTRUCTION DOCUMENTS OR BE OTHERWISE APPROVED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR AND/OR PROJECT SUPERINTENDENT. 3.4.2. ALL PIPE PENETRATIONS THROUGH ROOF SHALL BE FLASHED AND COUNTER-FLASHED WATER-TIGHT.
- 3.4.3. AT PIPE PENETRATIONS THROUGH FINISHED WALLS, PROVIDE AN ESCUTCHEON INSTALLED ON FINISHED FACE OF WALL 3.4.4. INSTALL CLEVIS OR RING TYPE HANGERS FOR ALL PIPING. WRAP PIPE WHERE DISSIMILAR METALS OCCUR. HANGERS AND ANCHORS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE PIPE AND ITS CONTENTS.
- HANGER RODS SHALL BE NO SMALLER THAN 3/8" DIAMETER. 3.4.5. PROVIDE HOLDRITE SILENCERS OR EQUAL RISER CLAMPS AT ALL PLUMBING LINES WITHIN SEPARATION WALLS, FLOOR/CEILING ASSEMBLIES BETWEEN DWELLING UNITS AND AS REQUIRED BY ARCHITECT & ACOUSTICAL ENGINEER,
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 3.4.6. WHERE VENTS PENETRATE OUTSIDE WALLS OF BUILDINGS, THE ANNULAR SPACES AROUND PENETRATIONS SHALL BE PERMANENTLY SEALED USING APPROVED MATERIALS TO PREVENT ENTRY OF COMBUSTION PRODUCTS INTO THE BUILDING
- 3.5. INSTALL ALL ABOVE GRADE PIPING AS HIGH AS POSSIBLE. 3.6. INSTALL PIPING TO ALLOW FOR THERMAL AND SEISMIC EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. ACCEPTABLE MEANS AND METHODS INCLUDE EXPANSION JOINTS, LOOPS AND OFFSETS AND EXPANSION CONSTRAINTS, GUIDES AND ANCHORS.

1.5 SYSTEM ALTERNATES & MODIFICATIONS

1. GENERAL REQUIREMENTS I.I. EQUIPMENT SUBSTITUTIONS, LAYOUT MODIFICATIONS, AND ALTERNATE INSTALLATIONS MUST PROVIDE SYSTEM-WIDE EQUIVALENT CAPACITY AND FLOW PERFORMANCE AS COMPARED TO THE DESIGNED CONDITION AND SHALL MEET OR EXCEED ALL PLAN-SPECIFIED CRITERIA.

3 THERMOSTATIC MIXING VALVE, BRADLEY-559-2007, SEE DETAIL 110/PD.1 THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

 $(1) \begin{array}{c} 1 \\ 2 \end{array}^{1} \text{ TRAP PRIMER FOR FLOOR DRAIN.} \end{array}$

(13) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.

(IJA) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

| | | CLUB WA | TER | | | CLUB WA | TER TO | DTALS | GENERAL NC |
|---------|--------|---------|-------|-----|---|---------------|--------|-------|---|
| | LINE | SIZE | | | | Water Service | 9.1 | GPM | I. IT IS THE CONTRACTORS/OWNERS/DE |
| FIXTURE | CW | GPM | HW | GPM | | Cold Water | 9.1 | GPM | TO REVIEW ALL NOTES AND DETAILS |
| KS | 1/2 '' | 1.1 | 1/2 " | 1.1 | | Hot Water | 2.6 | GPM | INCORPORATE IN THE CONSTRUCTION |
| DW | 1/2 '' | 0 | 1/2 " | 1.5 | | | | | 2. PRIOR TO BUILDING DEPARTMENT AF |
| IM | 1/2 '' | 14 | | | | CLU | JB GAS | | SHALL NOT BE USED FOR CONSTRUC |
| HB7 | 1/2 " | 12 | | | | | FLOW | | BIDS PERFORMED BEFORE PERMIT IS |
| HB8 | 1/2 '' | 8 | | | | FIXTURE | (CFH) | SIZE | RESPONSIBILITY OF THE CONTRACTO |
| HB9 | 1/2 '' | 8 | | | | | | | |
| HB10 | 1/2 '' | 14 | | | | | | | PROJECT SPECIF |
| | | | | | | | | | GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZ FIXTURE. |
| | | | | | | | | | GAS: GAS SERVICE METER LOCATED AT BAC THE POOL BUILDING. |
| TOTAL | | | | | 0 | TOTAL | | 0 | MATER: THE POOL BUILDING'S 3" WATER SERVI THE BACK SIDE OF THE POOL EQUIPME BUILDING'S 3/4" SERVICE METER THE I STORAGE ROOM. BELOW GRADE WATER |
| | | | | | | | | | CPVC, ABOVE GRADE TO BE PEX TUBI 2.2 FOR GENERAL REQUIREMENTS AND LOCATION OF SERVICE LINE AND METE TO CONSTRUCTION. |

DW IM HB7 HB8 HB9 HB10

DENOTES KEYNOT TO KEYNOTE SCH DENOTES DETAIL REFER TO DENOT. ____ **_**___ ----- ----_G___G____G____ ____ **_**__ —---- **-**_··_· _ _ _ GAS VALVE/STU PN.1, SECTION 2 HASHER WATER HO Q HO WASTE CLEAN C ↔ HOSE BIBB, SEE SECTION 3.1 M MATER METER/SU $\bigcirc \bigcirc \bigcirc$ - WATE SECT TANKLESS TANKED \bigcap DENOTES PLUMBI ARCHITECTURAL PI DENOTES PLUMBIN (VERIFY EXACT LC ARCHITECTURAL P ATTIC ACCESS PER HEADROOM. □ □ □ → BEAM/HEADER PE SHEARWALL PER FRAMING MEMBER _____ DENOTES CONTINU (AS SPECIFIED ON ____

| | _ | |
|----------|----|--|
| KEYNOTES | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | 11 | |
| | | |
| | | |
| | | |
| | | |
| | | |

| GENERAL NOTES 1. IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. 2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. PROJECT SPECIFICATIONS GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE | FOR JURISDICTIC | DN USE: |
|--|--|--|
| GASI GASI SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM, THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM, BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PEX TUBING, UNO. SEE PNI SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | Sacramento Structural Aliso Viejo Mechanical San Ramon Electrical | harris & sloan toll free 800.877.1430 www.harrisandsloan.com |
| | COTA VERA SWIM CLUB CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| SYMBOLS LEGEND DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. WASTE LINE WASTE VENT LINE CD_CD_CD_ Gas LINE Gas LINE HOT WATER LINE HOT WATER LINE RE-CIRCULATION LOOP | DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | : ER: МW VMC QES MW 01-13-2023 |
| GAS VALVE/STUB OUT, SEE PN.1, SECTION 2.1 WASHER WATER/DRAIN BOX, SEE PN.1, SECTION 2.2 WASTE CLEAN OUT, SEE PN.1, SECTION 2.3 HOSE BIBB, SEE PN.1, SECTION 3.1 (1) WATER METER/SUB-METER WATER METER/SUB-METER WATER HEATER, SEE PN.1, SECTION 3.2 TANKLESS TANKED DENOTES PLUMBING FIXTURE @ CURRENT LEVEL (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | STAMP: PROFE PROFE STAMP: PROFE EXP 09/3 SHEET TITLE: STAMP: PROFE EXP 09/3 CA PLAN NUMBER: SEGN | SS/ONAL D. PETRO IRES 0/24 BB24 LIFOR IENT 1 |
| HEADROOM. BEAM/HEADER PER STRUCTURAL PLANS SHEARWALL PER STRUCTURAL PLANS FRAMING MEMBER PER STRUCTURAL PLANS RECESSED LIGHT FIXTURE. VERIFY EXACT LOCATION WITH UTILITY PLANS DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS FOOTING WITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) | LEVEL 1 & GAS SCALE: 1/4" = SHEET NUMBER: DOB NUMBER: H | I WATER LAYOUT = 1'-0" |

______ G ______

HB4 +---

INSTALL HOSE BIBB UNDER CABINET

WOMEN'S RESTROOM 10'-1" CLG. TILE

3 THERMOSTATIC MIXING VALVE, BRADLEY-559-2007, SEE DETAIL 110/PD.1 THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

 $(1) \frac{1}{2} TRAP PRIMER FOR FLOOR DRAIN.$

(13) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.

(13A) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

| G IT IS THE CONTRAC TO REVIEW ALL NOT INCORPORATE IN TH PRIOR TO BUILDING CONSTRUCTION DOC SHALL NOT BE USE BIDS PERFORMED E RESPONSIBILITY OF | ENERAL NOTES TORS/OWNERS/DEVELOPERS RESPONSIBILITY TES AND DETAILS ON THE PN SHEETS AND IE CONSTRUCTION OF THE STRUCTURE. DEPARTMENT APPROVAL, THESE UMENTS ARE SUBJECT TO CHANGE AND D FOR CONSTRUCTION. ANY CONSTRUCTION/ IEFORE PERMIT ISSUANCE IS THE THE CONTRACTOR/BIDDER. | FOR JUI | RISDICTIC | DN USE: |
|--|---|--------------------------------------|--------------------------------|--|
| GENERAL: SEE SCHEDULES ON P FIXTURE. GAS: GAS SERVICE METER THE POOL BUILDING'S THE BACK SIDE OF TH BUILDING'S 3/4" SERV STORAGE ROOM. BELC CPVC, ABOVE GRADE 2.2 FOR GENERAL REC LOCATION OF SERVICE TO CONSTRUCTION. DRAIN, WASTE, AND Y BELOW GRADE WASTE BELOW GRADE WASTE OLVIL PLANS PRIOR T | AAN FOR LINE SIZES SERVING SINGLE LOCATED AT BACK SIDE STORAGE ROOM OF 3" WATER SERVICE LINE IS LOCATED ON HE POOL EQUIPMENT ROOM. THE OFFICE 'ICE METER THE BACK SIDE OF THE DW GRADE WATER PIPE TO BE PVC OR TO BE PEX TUBING, UNO. SEE PNI. SECTION QUIREMENTS AND ALTERNATES. VERIFY I LINE AND METER W/ CIVIL PLANS PRIOR VENT: //VENT PIPE TO BE ABS, ABOVE GRADE TO CTION 2.3 FOR GENERAL REQUIREMENTS 'RIFY LOCATION OF SEWER LATERAL W/ O CONSTRUCTION. | Sacramento Structural | San Ramon Electrical | ris & sloan toll free 800.877.1430 Energy Energy www.harrisandsloan.com |
| | | | | har |
| | | COTA VERA SWIM CLUB | CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| S` | YMBOLS LEGEND DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. | PROJECT: | | CLIENT: |
| CDCDCD GGG | WASTE LINE WASTE VENT LINE CONDENSATE GAS LINE | PROJEC DESIGNI DRAWN CHECKE | T MANAG ER: BY: D BY: | ier: MW VMC QES MW |
| | GAS VALVE/STUB OUT, SEE PN.1, SECTION 2.1 WASHER WATER/DRAIN BOX, SEE PN.1, SECTION 2.2 WASTE CLEAN OUT, SEE PN.1, SECTION 2.3 HOSE BIBB, SEE PN.1, SECTION 3.1 | ISSUE E | DATE: | 01-13-2023 |
| (M) | WATER METER/SUB-METER WATER HEATER, SEE PN.1, SECTION 3.2 DENOTES PLUMBING FIXTURE @ CURRENT LEVEL (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | STAMP: | HU PROFE OP/3 HU OF CA | SSIONAL D. PELSON IRES 10/24 8824 AMICH AND LIFOR |
| | DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | PLAN NUMBER SHEET TITLE: | EGM | ENT 2 |
| | HEADROOM. BEAM/HEADER PER STRUCTURAL PLANS SHEARWALL PER STRUCTURAL PLANS FRAMING MEMBER PER STRUCTURAL PLANS RECESSED LIGHT FIXTURE. VERIFY EXACT | LE\ & (| /EL ^ GAS | I WATER LAYOUT |
| | DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS FOOTING WITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS) | SCALE: SHEET NUMBER | <u>1/4" =</u> 1 | = 1'-0" 1 A 522244 |

| GENERAL NOTES IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. | FOR JURISDICTIO | DN USE: |
|---|--|--|
| GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE. | | |
| GAS: GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING. WATER: | | |
| THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PEX TUBING, UNO. SEE PN.I SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | ral nical al | ٥ |
| DRAIN, WASTE, AND VENT: BELOW GRADE WASTE/VENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS, SEE PN.I SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | Structu Mechar Electric | Energy |
| | iento Viejo imon | 1430 .com |
| | Sacram Aliso ^v San Ra | 0.877.3 dsloan |
| | 0, 0, | free 80 arrisan |
| | | l toll www.h |
| | | oan |
| | | |
| | | is & |
| | | harı |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | 7 |
| | CLUB | ATION TE 200 |
| | WIM (TA, CA | RPOR / CE, SUI D, CA |
| | ERA S | COR AT PLA(RLSBAI 92008 |
| | TA VE CHL | IEFEC WRIGH CA |
| | CO | HON 1903 |
| | | |
| | | |
| | | |
| | | |
| SYMBOLS LEGEND | | |
| DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. | OJECT: | EN⊤. |
| REFER TO DENOTED SHEET #. | PROJECT MANAG | J ier: MW |
| _CD_CD_CD_ < CONDENSATE _GGG GAS LINE | DRAWN BY: CHECKED BY: | QES MW |
| | ISSUE DATE: REVISIONS: | 01-13-2023 |
| GAS VALVE/STUB OUT, SEE PN.1, SECTION 2.1 WASHER WATER/DRAIN BOX, | | |
| SEE PN.I, SECTION 2.2 → Q → WASTE CLEAN OUT, SEE PN.I, SECTION 2.3 → HOSE BIBB, SEE PN.I, SECTION 3.1 | | |
| M WATER METER/SUB-METER | STAMP: | SSIONAL |
| TANKLESS TANKED | HER COLOR | IRES 10/24 |
| DENOTES PLUMBING FIXTURE @ CURRENT LEVEL (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | STATE OF CA | 8824 ANICAL AV |
| DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | PLAN NUMBER: SEGN | IENT 2 |
| ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM. | SHEET TITLE: | |
| BEAM/HEADER PER STRUCTURAL PLANS | LEVEL 2 & GAS | I WATER LAYOUT |
| FRAMING MEMBER PER STRUCTURAL PLANS RECESSED LIGHT FIXTURE. VERIFY EXACT | | |
| DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) | SCALE: 1/4" : SHEET NUMBER: | = 1'-0" |
| DENOTES CONTINUOUS FOOTING MITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) | P1. | 1A |
| DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS) | | |

| | POOL | RESTR | OOM WATER | 2 | POOL W | ATER TO | TALS |
|---------|-------|-------|-----------|-----|---------------|---------|------|
| | LINES | SIZE | | | Water Service | 282.4 | GPN |
| FIXTURE | CW | GPM | HW | GPM | Cold Water | 289.4 | GPN |
| WC1 | 3/4" | 12 | | | Hot Water | 14.6 | GPN |
| WC2 | 3/4" | 14 | | | | | |
| WC3 | 1 " | 20 | | | PC | OL GAS | |
| WC4 | 1 " | 25 | | | | FLOW | |
| WC5 | 1 " | 25 | | | FIXTURE | (CFH) | SIZE |
| WC6 | 3/4" | 12 | | | WH1 | 200 | 1 |
| WC7 | 1 " | 20 | | | WH2 | 200 | 1 |
| WC8 | 1 " | 25 | | | PH1 | 407 | 1 |
| WC9 | 3/4" | 14 | | | PH2 | 337 | 1 |
| WC10 | 1/2" | 8 | | | PH3 | 407 | 1 |
| U1 | 1/2" | 3 | | | PH4 | 407 | 1 |
| U2 | 1/2" | 6 | | | PH5 | 407 | 1 |
| U3 | 1/2" | 8 | | | PH6 | 407 | 1 |
| U4 | 3/4" | 12 | | | FPT1 | 200 | 1 |
| U5 | 3/4" | 14 | | | | | |
| LAV1 | 1/2" | 0.8 | | | TOTAL | 2972 | |
| LAV2 | 1/2" | 0.8 | | | | | |
| LAV3 | 1/2" | 0.8 | | | | | |
| LAV4 | 1/2" | 0.8 | | | | | |
| LAV5 | 1/2" | 0.8 | | | | | |
| LAV6 | 1/2" | 0.8 | 1/2" | 0.8 | | | |
| LAV7 | 1/2" | 0.8 | 1/2" | 0.8 | | | |
| LAV8 | 1/2" | 0.8 | 1/2" | 0.8 | | | |
| LAV9 | 1/2" | 0.8 | 1/2" | 0.8 | | | |
| LAV10 | 1/2" | 0.8 | 1/2" | 8.0 | | | |
| SH1 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH2 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH3 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH4 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH5 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH6 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH7 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| SH8 | 1/2" | 1.5 | 1/2" | 1.4 | | | |
| MOP | 1/2" | 2 | 1/2" | 2.0 | | | |
| PE1 | 3/4" | 14 | | | | | |
| PE2 | 3/4" | 14 | | | | | |
| DF1 | 1/2" | 0 | | | | | |
| DF2 | 1/2" | 0 | | | | | |
| HB1 | 1/2" | 2 | | | | | |
| HB2 | 1/2" | 2 | | | | | |
| HB3 | 1/2" | 2 | | | | | |
| HB4 | 1/2" | 2 | | | | | |
| HB5 | 1/2" | 2 | | | | | |
| HB6 | 1/2" | 2 | | | | | |

3 THERMOSTATIC MIXING VALVE, BRADLEY-559-2007, SEE DETAIL 110/PD.1 THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

 $(1) 2^{10} TRAP PRIMER FOR FLOOR DRAIN.$

(13) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.

(13A) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

| | GENERAL N |
|-------------|--|
| 1. | IT IS THE CONTRACTORS/OWNERS/E TO REVIEW ALL NOTES AND DETAIL INCORPORATE IN THE CONSTRUCTION |
| 2. | PRIOR TO BUILDING DEPARTMENT A CONSTRUCTION DOCUMENTS ARE SU SHALL NOT BE USED FOR CONSTRU BIDS PERFORMED BEFORE PERMIT RESPONSIBILITY OF THE CONTRACT |
| | |
| | PROJECT SPECI |
| G S F | <u>ENERAL:</u> EE SCHEDULES ON PLAN FOR LINE S IXTURE. |
| G | <u>AS:</u> AS SERVICE METER LOCATED AT B4 HE POOL BUILDING. |

| CLUB DRAIN-WASTE-VENT | | | | | | | | | |
|-----------------------|-----------|--------|-------|--------|-----|---|--|--|--|
| | LINE SIZE | | | | | | | | |
| FIXTURE | DFU | TRAP | DRAIN | VENT | QTY | TO | | | |
| KS | 2.0 | 1 1/2" | 2" | 1 1/2" | 1 | | | | |
| DW | 2.0 | 1 1/2" | 0 | 0 | 1 | Z. PR | | | |
| IM | | 0 | 0 | 0 | 1 | SH, | | | |
| | | | | | | BII | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | <u>GENE</u> SEE FIXTL | | | |
| | | | | | | <u>GAS:</u> GAS THE | | | |
| TOTAL | 4.0 | | | | 3 | WATE THE THE BUILI STOR CPVC | | | |

| | SYMBOLS LEC |
|------------|--|
| \bigcirc | DENOTES KEYNOT TO KEYNOTE SCHI |
| | - DENOTES DETAIL |
| | REFER TO DENOT |
| | —————————————————————————————————————— |
| | н, |
| | |
| | G/ |
| | |
| | — На |
| · · · | |
| ∲ ⊙ | GAS VALVE/STU PN.I, SECTION 2. WASHER WATER/ |
| | WASTE CLEAN O |
| | PN.1, SECTION 2. HOSE BIBB, SEE |
| | SECTION 3.1 |
| | WATER METER/SUB |
| | WATER |
| | SECTIO |
| TANKLESS | TANKED |
| | DENOTES PLUMBIN LEVEL (VERIFY EX ARCHITECTURAL F |
| | DENOTES PLUMBIN (VERIFY EXACT LI ARCHITECTURAL F |
| | ATTIC ACCESS PE HEADROOM. |
| | BEAM/HEADER PE |
| | - SHEARWALL PER S |
| | FRAMING MEMBER |
| | RECESSED LIGHT |
| | DENOTES CONTINU (AS SPECIFIED ON |
| | DENOTES CONTINU WITH STEMWALL (STRUCTURAL PLA |
| | - DENOTES CONTINU (AS SPECIFIED ON |

LEVEL INDICATOR

| GENERAL NOTES 1. IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. 2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. PROJECT SPECIFICATIONS | FOR JURISDICTIO | DN USE: |
|--|--|--|
| GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE GAS GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING'S 3' WATER SERVICE LINE IS LOCATED ON THE FOOL BUILDING'S 3' WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPHENT ROOM, THE OFFICE BUILDING'S 3/4' SERVICE METER THE BACK SIDE OF THE STORAGE ROOM, BELON GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PEY TUBING, UNO. SEE PNI SECTION 22 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W CIVIL PLANS PRIOR TO CONSTRUCTION. DRAIN, MASTE, AND VENTI BELOM GRADE MASTE/VENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS, SEE PNI SECTION 2: FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEVER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | Sacramento Structural Aliso Viejo Mechanical San Ramon Electrical | harris & sloan toll free 800.877.1430 www.harrisandsloan.com |
| | COTA VERA SWIM CLUB CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| SYMBOLS LEGEND Image: Denotes Keynote Specification. Refer To Keynote Schedule on This Sheet. Image: Denotes Detail Reference. | PROJECT MANAGE DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ЕR: МW VMC QES MW 01-13-2023 |
| (m) HATER METER/SUB-METER Image: Construct of the structure is a construct of the struct of the structure is a construct of the struct of th | STAMP: PROFE PROFE PROFE EXF OF C A PLAN NUMBER: SEGN SHEET TITLE: FOUN DRAIN, VENT | SSIONAL DENT 1 DATION WASTE & AYOUT |
| P RECESSED LIGHT FIXTURE. VERIFY EXACT LOCATION WITH UTILITY PLANS PENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) PENOTES CONTINUOUS FOOTING WITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) PENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) PENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) | SCALE: 1/4" : SHEET NUMBER: DOB NUMBER: + | <u>= 1'-0"</u> |

WOMEN'S RESTROOM 10'-1" CLG. TILE

3 THERMOSTATIC MIXING VALVE, BRADLEY-559-2007, SEE DETAIL 110/PD.1 THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

 $(II) \frac{1}{2}$ TRAP PRIMER FOR FLOOR DRAIN.

13 TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.

(IJA) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

| Т | | GENERAL NC |
|--|---|---|
| VENT QTY 2" 10 1 1/2" 5 1 1/2" 10 1 1/2" 8 2" 1 | IT IS THE CONTRACTORS/OWNERS/DE TO REVIEW ALL NOTES AND DETAILS INCORPORATE IN THE CONSTRUCTION PRIOR TO BUILDING DEPARTMENT AF CONSTRUCTION DOCUMENTS ARE SUB SHALL NOT BE USED FOR CONSTRUC BIDS PERFORMED BEFORE PERMIT IS RESPONSIBILITY OF THE CONTRACTOR | |
| 1 1/2" | 2 | PROJECT SPECIF |
| | | <u>GENERAL:</u> SEE SCHEDULES ON PLAN FOR LINE SIZ FIXTURE. |

| | POOL DRA | IN-WAS | | | |
|---------|----------|--------|---------|--------|-----|
| | | | LINE SZ | | |
| FIXTURE | DFU | TRAP | DRAIN | VENT | QTY |
| WC1 | 4.0 | 3" | 4" | 2" | 10 |
| U | 2.0 | 1 1/2" | 2" | 1 1/2" | 5 |
| LAV | 1.0 | 1 1/2" | 1 1/2" | 1 1/2" | 10 |
| SH | 2.0 | 2" | 2" | 1 1/2" | 8 |
| MOP | 3.0 | 3" | 3" | 2" | 1 |
| DF | 1.0 | 1 1/2" | 1 1/2" | 1 1/2" | 2 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL | 81.0 | | | | 36 |

LEVEL INDICATOR

 \sim

| GENERAL NOTES 1. IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. 2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. PROJECT SPECIFICATIONS GENERAL: GENERAL: | FOR JURISDICTIO | DN USE: |
|---|--|--|
| FIXTURE. GAS: GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING'S 3" WATER STERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PEX TUBING, UNO, SEE PNI, SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION. DRAIN, WASTE, AND VENT: BELOW GRADE WASTE/VENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS, SEE PNI, SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEVER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | Sacramento Structural Aliso Viejo Mechanical San Ramon Electrical | harris & sloan toll free 800.877.1430 www.harrisandsloan.com |
| | COTA VERA SWIM CLUB CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| SYMBOLS LEGEND DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. WASTE LINE WASTE VENT LINE CD_CD_CD_CD_ G_G_G_G_ G_G_G_G_ GAS LINE HOT WATER LINE HOT WATER LINE GAS VALVE/STUB OUT, SEE | PROJECT MANAG DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ЕR: МW VMC QES МW 01-13-2023 |
| PN.I, SECTION 2.1 WASHER WATER/DRAIN BOX, SEE PN.I, SECTION 2.2 HO 0 WASTE CLEAN OUT, SEE PN.I, SECTION 3.1 HOE BIBB, SEE PN.I, SECTION 3.1 WATER METER/SUB-METER WATER METER/SUB-METER WATER HEATER, SEE PN.I, SECTION 3.2 TANKLESS TANKED DENOTES PLUMBING FIXTURE @ CURRENT LEVEL (VERIFY EXACT LOCATION W/ARCHITECTURAL PLANS). DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ARCHITECTURAL PLANS). DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ARCHITECTURAL PLANS). DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ARCHITECTURAL PLANS). DENOTES PER ARCHITECT W/ MIN 30" HEADROOM. BEAM/HEADER PER STRUCTURAL PLANS | STAMP: PROFE PROFE PROFE PROFE PROFE CA PLAN NUMBER: SEGN SHEET TITLE: FOUNI DRAIN, V | SSIONAL D. PETRON IRES 10/24 8824 ANICAL PROFILE IENT 2 DATION WASTE & |
| FRAMING MEMBER PER STRUCTURAL PLANS FRAMING MEMBER PER STRUCTURAL PLANS RECESSED LIGHT FIXTURE. VERIFY EXACT LOCATION WITH UTILITY PLANS DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS FOOTING WITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) | VENT I SCALE: 1/4" : SHEET NUMBER: D1 | _AYOUT = 1'-0" |

3 THERMOSTATIC MIXING VALVE. BRADLEY-559-2007. SEE DETAIL 110/PD.I THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

KEYNOTES

- $(1) \frac{1}{2} TRAP PRIMER FOR FLOOR DRAIN.$
- (13) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.
- (13A) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

 CLUB DRAIN-WAS TE-VENT

 LINE SIZE

 DFU
 TRAP
 DRAIN
 VENT
 QTY

 2.0
 1 1/2"
 2"
 1 1/2"
 1

 2.0
 1 1/2"
 2"
 1 1/2"
 1

 2.0
 1 1/2"
 0
 0
 1

 0
 0
 0
 1
 1

FIXTURE KS DW IM

TOTAL

4.0

| GENERAL NOTES 1. IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. 2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. PROJECT SPECIFICATIONS | FOR JURISDICTIC | NUSE: |
|--|---|--|
| GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE. GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING'S 3" MATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM, THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PXT UBING, UNO SEE PNI SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION. DEAIN, WASTE, AND VENT: BELOW GRADE WASTER/VENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS, GEE PNI SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION. | Sacramento Structural Aliso Viejo Mechanical San Ramon Electrical | humping harris & sloan toll free 800.877.1430 www.harrisandsloan.com |
| | COTA VERA SWIM CLUB CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| SYMBOLS LEGEND DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET. DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #. WASTE LINE WASTE VENT LINE CD_CD_CD_ G_G_G_GGGG_ GAS LINE HOT WATER LINE HOT WATER LINE GAS VALVE/STUB OUT, SEE FN.I, SECTION 2.1 | DESIGNER: DRAWN BY: CHECKED BY: ISSUE DATE: REVISIONS: | ER: MW VMC QES MW 01-13-2023 |
| SEE FN.I, SECTION 2.2 HO 0 WASTE CLEAN OUT, SEE PN.I, SECTION 2.3 HOSE BIBB, SEE PN.I, SECTION 3.1 Image: Section 3.2 TANKLESS Image: Section 3.2 Image: Section 3.2 | STAMP: PROFE PROFE PROFE EXP 09/3 WASHEET TITLE: LEVEL WASTE | SSIONAL DENT 1 |
| FRAMING MEMBER PER STRUCTURAL PLANS RECESSED LIGHT FIXTURE. VERIFY EXACT LOCATION WITH UTILITY PLANS DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS FOOTING WITH STEMWALL (AS SPECIFIED ON STRUCTURAL PLANS.) DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.) | SCALE: 1/4" = SHEET NUMBER: JOB NUMBER: H | <u>= 1'-0"</u> |

| EYNOTE SCI |
|------------------------------|
| TES DETAIL |
| R TO DENO |
| ◀─── ↓ |
| |
| |
| |
| |
| |
| |
| , SECTION : |
| PN.I, SECT |
| , SECTION : |
| E BIBB, SEE TION 3.1 |
| ER METER/S |
| WATI |
| SECT |
| |
| TES PLUMB |
| L (VERIFY I IITECTURAL |
| |
| TES PLUMB |
| IITECTURAL |
| |
| C ACCESS P R <i>OO</i> M. |
| |
| I/HEADER P |
| RWALL PER |
| IING MEMBER |
| - SSED LIGHT |
| I ON PNITH U |
| TES CONTIN |
| SPECIFIED (|
| |
| TES CONTIN STEMWALL |
| |

| | TANK |
|-----------------|------|
| | |
| | |
| | |
| | |
| | |
| | |
| | -C |
| LEVEL INDICATOR | |
| | |
| | |
| | |

WOMEN'S RESTROOM 10'-1" CLG. TILE

3 THERMOSTATIC MIXING VALVE, BRADLEY-559-2007, SEE DETAIL 110/PD.I THERMOSTATIC MIXING VALVE FOR SINKS.OR EQUIVALENT..INSTALL PER MANUFACTURERS INSTRUCTIONS.

 $(1) \frac{1}{2}$ TRAP PRIMER FOR FLOOR DRAIN.

(13) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 212/PD.1.

(IJA) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 213/PD.1

| POOL DRAIN-WASTE-VENT | GENERAL NO |
|--------------------------------------|---|
| LINE SIZE DFU TRAP DRAIN VENT QTY | 1. IT IS THE CONTRACTORS/OWNERS/DEV TO REVIEW ALL NOTES AND DETAILS |
| 4.0 3" 4" 2" 10 | INCORPORATE IN THE CONSTRUCTION (|
| 2.0 1 1/2" 2" 1 1/2" 5 | 2. PRIOR TO BUILDING DEPARTMENT APP |
| 1.0 1 1/2" 1 1/2" 1 1/2" 10 | SHALL NOT BE USED FOR CONSTRUCT |
| 2.0 2" 2" 1 1/2" 8 | BIDS PERFORMED BEFORE PERMIT ISS |
| 3.0 3" 3" 2" 1 | RESPONSIBILITY OF THE CONTRACTOR |
| 1.0 1 1/2" 1 1/2" 1 1/2" 2 | |
| | PRUJECT SPECIFI |
| | <u>GENERAL:</u> SEE SCHEDULES ON PLAN FOR LINE SIZE FIXTURE. <u>GAS:</u> GAS SERVICE METER LOCATED AT BACK |
| | THE POOL BUILDING. |
| 81.0 36 | THE POOL BUILDING'S 3" WATER SERVIC THE POOL BUILDING'S 3" WATER SERVIC THE BACK SIDE OF THE POOL EQUIPMEN BUILDING'S 3/4" SERVICE METER THE BA STORAGE ROOM. BELOW GRADE WATER CPVC, ABOVE GRADE TO BE PEX TUBING 2.2 FOR GENERAL REQUIREMENTS AND A LOCATION OF SERVICE LINE AND METER TO CONSTRUCTION. |
| | |

FIXTURE

WC1

LAV

MOP DF

TOTAL

SH

LEVEL INDICATOR

| GENERAL NOTES 1. IT IS THE CONTRACTORS/OWNERS/DEVELOPERS RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE. 2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER. PROJECT SPECIFICATIONS | FOR JURISDICTIC | N USE: |
|---|---|--|
| GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE. GAS: GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPTENT ROOM. THE OFFICE BUILDING'S 3/4 SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PYE TUBING, UNO, SEE PNI, SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER WY CIVIL PLANS PRIOR TO CONSTRUCTION. DEALN, WASTE, AND VENT. BELONG GRADE WASTEVENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS, SEE PNI, SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEVER LATERAL WY CIVIL PLANS PRIOR TO CONSTRUCTION. | Sacramento Structural Aliso Viejo Mechanical San Ramon Electrical | humbing harris & sloan toll free 800.877.1430 www.harrisandsloan.com |
| | COTA VERA SWIM CLUB CHULA VISTA, CA | HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 200 CARLSBAD, CA 92008 |
| SYMBOLS LEGEND Image: Denotes keynote specification. Refer to keynote schedule on this sheet. Image: Denotes detail reference. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. Image: Refer to denoted sheet #. Image: Denotes detail reference. | DESIGNER: DRAWN BY: CHECKED BY: | ER MW VMC QES MW |
| HOT WATER LINE HOT WATER LINE HOT WATER LINE RE-CIRCULATION LOOP GAS VALVE/STUB OUT, SEE PN.1, SECTION 2.1 WASHER WATER/DRAIN BOX, SEE PN.1, SECTION 2.2 HO 0 HOSE BIBB, SEE PN.1, SECTION 2.3 HOSE BIBB, SEE PN.1, SECTION 3.1 MATER METER/SUB-METER | ISSUE DATE: REVISIONS: | 01-13-2023 |
| DENOTES PLUMBING FIXTURE @ CURRENT LEVEL (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). | PROFE PROFE OF CA STATES OF CA MECH, OF CA | SSIONAL D. DE BO IRES 0/24 8824 LIFORN |
| (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS). ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM. BEAM/HEADER PER STRUCTURAL PLANS SHEARWALL PER STRUCTURAL PLANS FRAMING MEMBER PER STRUCTURAL PLANS | SHEET TITLE: LEVEL WASTE LAY | IENT 2 1 DRAIN, & VENT OUT |
| Image: Provide the second s | SCALE: 1/4" : SHEET NUMBER: D1 | <u>= 1'-0"</u> 3A |


| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE CO | OMPLIANCE METHOD | | NRCC-PRF-E |
|--|--------------------------|-----------------------------|---|
| Nonresidential Performance Compliance Method | | | (Page 7 of 15) |
| | | | |
| C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹ | | | |
| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE) ¹ |
| Receptacle | 7.69 | 7.69 | |
| Process | | | |
| Other Ltg | | | |
| Process Motors | | | |
| TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS) | 26.99 | 23.14 | 3.85 (14.3%) |
| ¹ Notes: This table is not used for Energy Code Compliance. | | | |
| C6. 'ABOVE CODE' QUALIFICATIONS | | | |
| This project is pursuing CalGreen Tier 1 | ☐ This project | is pursuing CalGreen Tier 2 | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

| Nonresidential Performance Compliance | e Method | | | | | (Page 8 of 15) |
|---------------------------------------|-------------------------------|-------------------------------|--------------|--------------------------------|--------------------------------|----------------|
| C7. ENERGY USE SUMMARY | | | | | | |
| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
| Space Heating | 0.6 | 0.8 | -0.2 | | | |
| Space Cooling | 1.2 | 2.1 | -0.9 | | | |
| Indoor Fans | 5 | 2.6 | 2.4 | | | |
| Heat Rejection | | | | | | |
| Pumps & Misc. | | | | | | |
| Domestic Hot Water | 0.5 | 0.5 | 0 | | | |
| Indoor Lighting | 1.6 | 1.6 | 0 | | | |
| Flexibility | | | | | | |
| EFFICIENCY TOTAL | 8.9 | 7.6 | 1.3 | 0 | 0 | 0 |
| Photovoltaics | | | | | | |
| Batteries | | | | | | |
| ENERGY USE SUBTOTAL | 8.9 | 7.6 | 1.3 | 0 | 0 | 0 |
| Receptacle | 5 | 5 | 0 | | | |
| Process | | | | | | |
| Other Ltg | | | | | | |
| Process Motors | | | | | | |
| ENERGY USE TOTAL | 13.9 | 12.6 | 1.3 | 0 | 0 | 0 |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 9 of 15) Nonresidential Performance Compliance Method Margin Percentage kBtu/ft² / yr) Margin (kBtu/ft² / yr) 9.35 3.81 9.35 3.81 rgy Use Total (including PV)/Total Building Area. D1. EXCEPTIONAL CONDITIONS PrescriptiveDayLightCtrl
 NoServiceWaterHeating 4 3 Window to Wall Ratio (%) Total Fenestration Area (ft²) 36.07 158 2.94 15 27.48 122 74 14.51 369 19.4 0 0 ¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),

| C8. ENERGY USE INTENSITY (EUI) | | |
|-------------------------------------|---|------------------------|
| | Standard Design (kBtu/ft ² / yr) | Proposed Design (k |
| GROSS EUI ¹ | 40.74 | 36.93 |
| NET EUI ¹ | 40.74 | 36.93 |
| 1Notes: Gross EUI is Energy Use Tot | tal (not including PV)/Total Building | Area. Net EUI is Energ |
| | | |

| ENVELOPE GENERAL INFORMATION (condit | ioned spaces only) |
|--------------------------------------|---|
| 1 | 2 |
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft ²) |
| North-Facing ¹ | 438 |
| East-Facing ² | 510 |
| South-Facing ³ | 444 |
| West-Facing ⁴ | 510 |
| Total | 1902 |
| Roof | 1164 |

²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE), ³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE), ⁴West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFOR | MANCE COMPLIANCE METHOD | | NRCC-PRF-E |
|---|---|-----------------------|--------------------------------------|
| Nonresidential Performance Compliance Method | | | (Page 4 of 15) |
| | ADONIENTS (Annual TDV/Engage Line 1/24). /62 | <u>\</u> | |
| C2. IDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE CON | APONENTS (Annual TDV Energy Ose, kblu/It - yr | 1 | |
| | COMPLIES ² | | |
| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV) ¹ |
| Space Heating | 17.8 | 22.42 | -4.62 |
| Space Cooling | 32.83 | 51.91 | -19.08 |
| Indoor Fans | 121.52 | 63.12 | 58.4 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 11.84 | 11.84 | 0 |
| Indoor Lighting | 34.22 | 34.22 | 0 |
| Flexibility | | | |
| EFFICIENCY COMPLIANCE TOTAL | 218.21 | 183.51 | 34.7 (15.9%) |
| Photovoltaics | | | |
| Batteries | | | |
| TOTAL COMPLIANCE | 218.21 | 183.51 | 34.7 (15.9%) |
| ¹ Notes: This number in parenthesis following the Compliance | e Margin in column 4, represents the Percent | Better than Standard. | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Generated: 2023-01-09 15:50:54

Report Generated: 2023-01-09 15:50:54

Report Generated: 2023-01-09 15:50:54

NRCC-PRF-E

Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

| C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹ | | |
|--|-----------------------|-----------------|
| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design |
| Receptacle | 105.34 | 105.34 |
| Process | | |
| Other Ltg | | |
| Process Motors | | |
| TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS) | 323.55 | 288.85 |
| ¹ Notes: This table is not used for Energy Code Compliance. | | • |

Report Version: 2022.0.000

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

| | COMPLIES ² | | |
|-----------------------------|--------------------------|--------------------------|----------------------------|
| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE) |
| Space Heating | 2.56 | 3.25 | -0.69 |
| Space Cooling | 1.56 | 2.56 | -1 |
| Indoor Fans | 11.43 | 5.89 | 5.54 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 1.11 | 1.11 | 0 |
| Indoor Lighting | 2.64 | 2.64 | 0 |
| Flexibility | | | |
| EFFICIENCY COMPLIANCE TOTAL | 19.3 | 15.45 | 3.85 (19.9%) |
| Photovoltaics | | | |
| Batteries | | | |
| TOTAL COMPLIANCE | 19.3 | 15.45 | 3.85 (19.9%) |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

| CEF | RTIFICATE OF COMPLIANCE - NO | NRESIDENTIAL PERFORMANCE COMPLIANCE METH | IOD | | |
|------|--|---|-----|---|---------------------------|
| No | nresidential Performance Compl | iance Method | | | |
| Pro | ject Name: | | | COTA VERA OFFICE Date Pre | pared: |
| A. 6 | General Information | | | | |
| 1 | Project Name | COTA VERA OFFICE | | | |
| 2 | Run Title | Title 24 Analysis | | | |
| 3 | Project Location | COTA VERA | | | |
| 4 | City | CHULA VISTA | 5 | Standards Version | |
| 6 | Zip code | 91913 | 7 | Compliance Software (version) | CBECC 2022.2.0 (1273) |
| 8 | Climate Zone | 7 | 9 | Building Orientation (deg) | 0 |
| 10 | Building Type(s) | Nonresidential | 11 | Weather File | IMPERIAL-BEACH-NOLF_STYP2 |
| 12 | Project Scope | New envelope and mechanical | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft ²) | 1164 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft ²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 1164 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |

Report Generated: 2023-01-09 15:50:54

NRCC-PRF-E (Page 5 of 15) Design (TDV) Compliance Margin (TDV)¹ 5.34 -------------

34.7 (10.7%)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

B1. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescri permit application. Building Components Complying via Performance Building Components Complying

Report Version: 2022.0.000

Schema Version: rev 20220601

| | Performance | | | Performance | The following building components are ON |
|----------------------------------|--------------|--|--|--------------|--|
| Envelope (See Table G) Nonres | Not Included | Kitchens (see Table J) | | Not Included | NRCC form listed if within the scope of the (i.e. compliance will not be shown on the |
| Mechanical (See Table H) | Performance | | | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) |
| Nonres | Not Included | | | Not Included | Outdoor Lighting 140.7 & 170.2(e) |
| Domestic Hot Water (See | Performance | Covered Process: Laboratory | | Performance | Sign Lighting 140.8 & 170.2(e) |
| | Not Included | - Exhaust (see Table J) | | Not Included | |
| Lighting (Indoor Conditioned | Performance | Electrical power systems, con | ns, commissioning, solar ready, or requirements are mandatory nted on the NRCC form listed if liance will not be shown on the | | Building Components Complying with M |
| see Table K) Nonres | Not Included | elevator and escalator requ and should be documented o applicable (i.e. compliance | | | Electrical Power Distribution 110.11 |
| Solar Thermal Water Heating | Performance | - applicable (i.e. compliance v | | NRCC-PRF-E.) | Commissioning 120.8 |
| (See Table I3) | Not Included | | | | Solarand Battery 110.10 |

Report Generated: 2023-01-09 15:50:54

NRCC-PRF-E

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2

Report Generated: 2023-01-09 15:50:54

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

| Nonresidential Performance Compliance Method | | | |
|---|---|--|--------------------|
| | | | |
| C1. COMPLIANCE SUMMARY | | | |
| | COMPLIES ³ | | |
| | Time Dependent | Valuaton (TDV) | Sourc |
| | Efficiency ¹ (kBtu/ft ² - yr) | Total ² (kBtu/ft ² - yr) | Total ² |
| Standard Design | 218.21 | 218.21 | |
| Proposed Design | 183.51 | 183.51 | |
| Compliance Margins | 34.7 | 34.7 | |
| | Pass | Pass | |
| ¹ Efficiency measures include improvements like a better | building envelope and more efficient equipment | | - |

² Compliance Totals include efficiency, photovoltaics and batteries ³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

| | (Page 6 of 15) |
|----------|---|
| | |
| | |
| | |
| (SOURCE) | Compliance Margin (SOURCE) ¹ |
| | -0.69 |
| | -1 |
| | 5.54 |
| | 0 |
| | |

Report Generated: 2023-01-09 15:50:54

| | (Page 1 of 15) |
|--|---|
| | 2023-01-09 |
| | |
| | |
| | |
| | |
| 22.2.0 (1273) | |
| | |
| -BEACH-NOLF_STYP2 | 20.epw |
| | |
| as | |
| | |
| | |
| | |
| | |
| | |
| | |
| keport Generated: 20 | 3-01-09 15:50:54 uz-01-09 |
| | |
| | |
| | (Page 2 of 15) |
| | (1 aBc 7 01 13) |
| v compliance prescri | otivelv if within the |
| onents Complying P | rescriptively |
| components are ON | ILY eligible for cumented on the |
| thin the scope of the ot be shown on the I | permit application NRCC-PRF-E). |
| onditioned) 140.6 | NRCC-LTI-E is required |
| .7 & 170.2(e) | NRCC-LTO-E is required |
| amp; 170.2(e) | NRCC-LTS-E is required |
| s Complying with Ma | andatory Measures |
| da de la composición | NRCC-ELC-E is required |
| ipution 110.11 | NRCC-CXR-F is |
| เอนtion 110.11 | required |
| 10ution 110.11 | RRCC-SAB-E is required |
| 10 | required NRCC-SAB-E is required |
| 10ution 110.11 | RRCC-SAB-E is required |
| 10000000000000000000000000000000000000 | NRCC-SAB-E is required |
| 10 110.11 | NRCC-SAB-E is required |
| Report Generated: 20 | NRCC-SAB-E is required |
| 10 110.11 | NRCC-SAB-E is required |
| Report Generated: 20 | NRCC-SAB-E is required |
| 10 | NRCC-PRF-E |
| 10 | NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) |
| 10 Report Generated: 20 | NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) |
| Report Generated: 20 | NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) |
| IDUITION 110.11 | NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) |
| IDUITION 110.11 | NRCC-PRF-E (Page 3 of 15) E Energy Use kBtu/ft ² - yr) 19.3 |
| IDUITION 110.11 | Infect ONT 115 required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) e Energy Use kBtu/ft ² - yr) 19.3 15.45 |
| Report Generated: 20 | Infect ONT 115 required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Report Generated: 20 | Infect ONT 115 required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Report Generated: 20 | NRCC-SAB-E is required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) e Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Report Generated: 20 Source Total ² (| Infoce child in a required required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Report Generated: 20 Source Total ² (| Initial control of required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Source Ceeded | Infoce child in its required NRCC-SAB-E is required 023-01-09 15:50:54 NRCC-PRF-E (Page 3 of 15) e Energy Use kBtu/ft ² - yr) 19.3 15.45 3.85 Pass |
| Seport Generated: 20 Source Total ² (Ceeded | Initial control of a contr |



FOR JURISDICTION USE:

Schema Version: rev 20220601

| CERTIFICATE OF COMPL | IANCE - N | IONRESIDENTIA | L PERFO | RMANCE CO | MPLIANCE | METHOD | | | | | | | NRCC-PRF-E | |
|---|--|--|--|--|--|--|--|--------------------------------------|--------------------------|-----------------------|------------------------------|-------------------------|------------------------|--|
| Nonresidential Perform | ance Com | npliance Metho | d | | | | | | | | | | (Page 13 of 15) | |
| | | | | | | | | | | | | | | |
| H9. NONRESIDENTIAL / CC | | SE AREA & HOTEL | /MOTEL | VENTILATION | | | | | | | | | | |
| 1 | 2 | | 3 | | | 4 | | 5 | | 6 | | | 7 | |
| Zone Name | | | | Mecha | nical Ventilat | Ventilation | | · | | Conditioned Area (cf) | | cf) DCV or | DCV or Occupant Sensor | |
| Zone Name Ve | | Ventilation Function | | # of People# of People | | Supply OA CFM | | Exhaust CFM | | | | Si) Cor | Controls, or Both | |
| 1-Office | Office - | - Office space | | 5.82 | | 174.6 | | 500 | | | 1164 | | N/A | |
| H11. ZONAL SYSTEM AND | TERMINAL | . UNIT SUMMARY | , | | | | | | | | | | | |
| 01 | | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | 10 | 11 | 12 | |
| | System Type | | | Rated Capa | Rated Capacity (kBtuh) | | irflow (cfm | w (cfm) | | Fan | | | | |
| System ID | | | Qty | Heating | Cooling | Design | MIn. | Min. Ratio | Powe | r | Power Units | Cycles | VSD | |
| 2-Office-VRF | Variabl | e Refrigerant Flow | 1 | 45.3 | 32.4 | 1,100 | N/A | N/A | 0.34 | | BHP | Continuous | Constant Speed | |
| L. DECLARATION OF REQU | IRED CERTI | IFICATES OF INSTA | LLATION | | | | | | | | | | | |
| Selections made by Docum and provided to the buildin | entation A g inspecto | uthor indicate wh r during construc | nich Certi tion and o | ficates of Insta can be found o | Illation must Inline | be submitted fo | r the featur | es to be recogn | ized for c | ompli | ance. These | documents m | ust be retained | |
| Building Compone | nt | | Form/Title | | | | | | | | | | | |
| Envelope | | NRCI-ENV-01-E - Must be submitted for all buildings | | | | | | | | | | | | |
| Envelope | | NRCI-ENV-E - E | CI-ENV-E - Envelope (for all buildings) | | | | | | | | | | | |
| Mechanical | | NRCI-MCH-01-E - Must be submitted for all buildings | | | | | | | | | | | | |
| Mechanical | | NRCI-MCH-E - I | CI-MCH-E - For all buildings with Mechanical Systems | | | | | | | | | | | |
| M. DECLARATION OF REQU | | TIFICATES OF ACC | EPTANCE | | | | | | | | | | | |
| Selections made by Docum to the building inspector du https://www.energy.ca.gov | entation A uring const u/title24/2 | uthor indicate wh ruction and must 019standards/20 | nich Certi be comp 19_comp | ficates of Acce leted through liance_docum | ptance must an Acceptan ents/Nonresi | be submitted fo ce Test Technicia idential_Docum | r the featur n Certificai ents/NRCA/ | res to be recogn ton Provider (Al | ized for c FTCP). Foi | ompli r more | iance. These e informatio | documents m n visit: | ust be provided | |
| Building Compone | nt | | | | | | Form/T | itle | | | | | | |
| Envelope | | NRCA-ENV-02- | F - NRFC | label verifica | tion for fene | estration | | | | | | | | |
| | | | | | | | | | | | | | | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

| CERTIFICATE OF COMPLIANC | CE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD |
|--|---|
| Nonresidential Performance | Compliance Method |
| M. DECLARATION OF REQUIRED | CERTIFICATES OF ACCEPTANCE |
| Selections made by Documentat to the building inspector during (https://www.energy.ca.gov/title | ion Author indicate which Certificates of Acceptance must be submitted for the features to be recogn construction and must be completed through an Acceptance Test Technician Certificaiton Provider (AT 224/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ |
| Building Component | Form/Title |
| Mechanical | NRCA-MCH-20-H Multifamily Ventilation |
| N. DECLARATION OF REQUIRED | CERTIFICATES OF VERIFICATION |
| Selections made by Documentat and provided to the building insp | ion Author indicate which Certificates of Verification must be submitted for the features to be recogn pector during construction and can be found online |
| | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

Documentation Author's Declaration Statement

| Declaration Statement | |
|---|---|
| 1. I certify that this Certificate of Compliance documentation is | accurate and complete. |
| Documentation Author Name: KWEKU NGISSAH | Documentation Author Signature: |
| Company: HARRIS & SLOAN | Signature Date: |
| Address: 2295 GATEWAY OAKS DR | CEA/HERS Certification Identification (if applicable) |
| City/State/Zip: , | Phone: 916.921.2441 |
| Responsible Person's Declaration statement | |
| a transferation following and an analysis of a stimula and a law | |

2. I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of

Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this

Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable

compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.

6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements. Responsible Designer Signature: Responsible Designer Name: DAN MULLEN Company: STARCK ARCHITECTURE + PLANNING Address: 2045 KETTNER BLVD STE 100 Date Signed: 1/9/23 City/State/Zip: SAN DIEGO, CA 92101 License #: C10560 Phone: 619-299-7070 Title: Architect Responsible Designer Name: ROB PENDROD Responsible Designer Signature:

Company: HARRIS & SLOAN Address: 2295 GATEWAY OAKS DR Date Signed: 1/9/23 City/State/Zip: SACRAMENTO, CA 95833 License #: M18824 Phone: 916.921.2441 Title: Engineer

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2023-01-09 15:50:54

NRCC-PRF-E (Page 14 of 15) nized for compliance. These documents must be provided ATTCP). For more information visit: nized for compliance. These documents must be retained

Report Generated: 2023-01-09 15:50:54

Kweku Ngiss**ah**

Scope: Envelope

Scope: Mechanical

NRCC-PRF-E

(Page 15 of 15)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|----------------|
| | |
| G4. NONRESIDENTIAL AIR BARRIER | |
| 01 | 02 |
| Building Story Name | Air Barrier |
| Office Floor 1 | No air barrier |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

| G5. OPAQUE SUR | FACE ASSEMBLY S | UMMARY | | | | | | | |
|-------------------------|----------------------|-------------------------|-----------------|-------------------|----------|------------|----------|--------|--|
| 01 | 02 | 03 | 04 | 05 | 0 | 6 | 07 | 08 | 09 |
| Surface Name | | Area (#2) | Framing Type | Cavity R-Value | Continuo | ıs R-Value | Unito | Value | Description of Assembly La |
| | | Area (ft ⁻) | | | Interior | Exterior | | | |
| ilab On Grade7 | Underground Floor | 1,164 | N/A | 0 | N/A | N/A | F-factor | 0.73 | Slab Type =Unheated slab on gra Insulation Orientation =None Insulation R-Value =none |
| R-19 Wall9 | Exterior Wall | 1,902 | Wood | 19 | N/A | N/A | U-factor | 0.0723 | Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. |
| R-30 Roof Attic21 | Roof | 830 | Wood | 30 | N/A | N/A | U-factor | 0.0383 | AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 more Composite-2 Gypsum Board - 1/2 in. |
| R-0 Interior Wall23 | Interior Wall | 540 | Wood | 0 | N/A | N/A | U-factor | 0.3643 | Gypsum Board - 1/2 in. Composite-3 Gypsum Board - 1/2 in. |
| Flat TPO Roof R-3030 | Roof | 334 | Wood | 30 | N/A | N/A | U-factor | 0.0394 | Single Ply Roofing - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 more Composite-4 Gypsum Board - 1/2 in. |

¹ Status: N - New, A - Altered, E - Existing

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 20

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

| G7A. FENESTRATIC | ON ASSEMBLY SUMM | ARY (NONRESI | DENTIAL) | | | | | | | |
|---|------------------------------|---------------------------------------|--|--------------------------------------|-------------------|----------------|--|---------------------|----------------------|-------------------|
| 01 02 | | | | 03 | | 04 | 05 | 06 | 07 | Τ |
| Fenestration Assembly Name Fenestration Type/ Proc | | pe/ Product Ty | pe / Frame Type | Certification Method ¹ | | Assembly Metho | Area (ft ²) | Overall U-factor | Overall SHGC | 6 |
| Residential FX Fixed w N/ | | tical fenestra Fixed windov N/A | tion / | NFRC | | Manufactured | 273 | 0.3 | 0.23 | |
| Vertical f Residential FD Fixed | | tical fenestra Fixed windov N/A | tion / | NFRC | | Manufactured | 96 | 0.34 | 0.23 | |
| H1. DRY SYSTEM E | QUIPMENT (FURNAC | ES, AIR HANDL | ING UNITS, HEAT | PUMPS, VRF, | ECONOMIZ | ERS ETC.) | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| | | | | Heating | | | Cooling | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficienc Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Econ Ty pre |
| HP1 | Variable Refrigerant Flow | 1 | 45.3 | N/A | HSPF | 11 | 45.3 | N/A | NA | 1 |
| ¹ Status: N - New, A | - Altered, E - Existing | | | | | | | | | |
| H5. GENERAL EXH | AUST FAN SUMMARY | , | | | | | | | | |
| 1 | 2 | | 3 | 4 | | 5 | | 6 | 7 | |
| System ID | Zone Nam | e | Qty | CFN | 1 | PowerPowerPow | er Po | wer Units | Continuous Operation | |
| Office1 | 1-Office | İ | 1 | 500 |) | 0.19 | | 0.33 | 1.58 | |
| | | | | | | | | | | |

¹ Status: N - New, A - Altered, E - Existing

Report Generated: 2023-01-09 15:50:54

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

| | | | | _ |
|---|------------------------|-----|---------------------|----------|
| | | NR | CC-PRF-E | F |
| | (Pa | ge | 10 of 15) | |
| | | | | |
| | | | | |
| rier | | | | |
| arrier | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | - |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Report Gener | ated: 2023-01 | -09 | 15:50:54 | |
| | | | | |
| | | | | |
| | | | | |
| | | NR | CC-PRF-E | |
| | (Pa | ge | 11 of 15) | |
| | | | | |
| 09 | | | 10 | |
| ption of Assem | bly Layers | | Status ¹ | |
| Unheated slab (Drientation =No | on grade ne | | N | |
| -Value =none B in. | | | | |
| eable felt - 1/8 1 | in. | | Ν | |
| ard - 1/2 in. gles0_25In | | | | |
| ieable feit - 1/8 /2 in. - Wall Roof Ceil | in. | | N | |
| 2 | | | | |
| ard - 1/2 in. ard - 1/2 in. | | | | |
| 3 ard - 1/2 in. | | | Ν | |
| oofing - 1/4 in. leable felt - 1/8 | in. | | | |
| /2 in. - Wall Roof Ceil | ing - 4 in. or | | Ν | |
| 4 ard - 1/2 in. | | | | |
| | | | | |
| | | | | |
| | | ~~ | | |
| Report Gener | ated: 2023-01 | -09 | 15:50:54 | |
| | | | | |
| | | | | |
| | | NR | CC-PRF-E | |
| | (Pa | ge | 12 of 15) | |
| | | | | |
| 07 | 08 | | 09 | |
| Overall SHGC | Overall V1 | • | Status ² | |
| 0.23 | 0.5 | | New | |
| | | | | FCT. |
| 0.23 | 0.5 | | New | Càd d |
| | | | | P D |
| 10 | 11 | | 12 | D |
| | Economizer Type (if | | Status ¹ | C |
| Efficiency | present) | | | R |
| NA | N/A | | N | |
| | | | | |
| | | | | _ |
| 7 | | 8 | 1 | S |
| 1.58 | | Ne | w | |
| | | | | |
| | | | | |
| Report Gener | ated: 2023-01 | -09 | 15:50:54 | |
| | | | | P N |
| | | | | S |
| | | | | I T |
| | | | | ľ |
| | | | | |
| | | | | |

