# SAN JOSE COUNTRY CLUB

# CONSTRUCTION PERMIT SUBMITTAL 15571 ALUM ROCK AVE SAN JOSE CA

San Jose

Drying Shed

Elementa

# **ABBREVIATIONS**

MTL.

MIN.

MISC

N.I.C.

N.T.S.

0/

OCC.

0.C.

0.D.

OFCI

OPP.

PLYWD.

REF.

REINF.

REQ.

RM.

R.O.

S.C.

SD.

SECT.

SED.

SIM.

SMD

SPD

SSD

STD.

STL.

STOR.

T.&G.

TYP.

U.O.N.

VCT.

V.I.F.

VEST.

WD.

WH

W/O

SCHED.

PL. P.LAM.

NO. or #

Diameter or Round Pound or Number Existing Above Finish Floor \coustical Aluminum Architectural Board Building Block Blocking Ceiling Clear Concrete Continuous Department Detail Diameter Door Drawing Existing Each Elevation Electrical Existing Exterior Fire Extinguisher Fire Extinguisher Cabinet Face of Concrete Face of Finish Face of Studs Foot or Feet Gauge Galvanized Grab Bar Gypsum Hose Bibb Hollow Core Hardwood Interior Janitor Laminate

Maximum

ALUM.

ARCH.

BD.

BLDG.

BLK.

CLG.

CLR.

CONC.

CONT

DEPT.

DET.

DIA.

DR.

(E)

EA.

EL.

ELEC.

EXIST.

EXT.

F.E.

F.E.C.

F.O.C.

F.O.F.

F.O.S.

FT.

GA.

GALV.

G.B.

GYP.

H.B.

H.C.

INT.

JAN.

LAM.

MAX.

HDWD.

DWG.

BLKG.

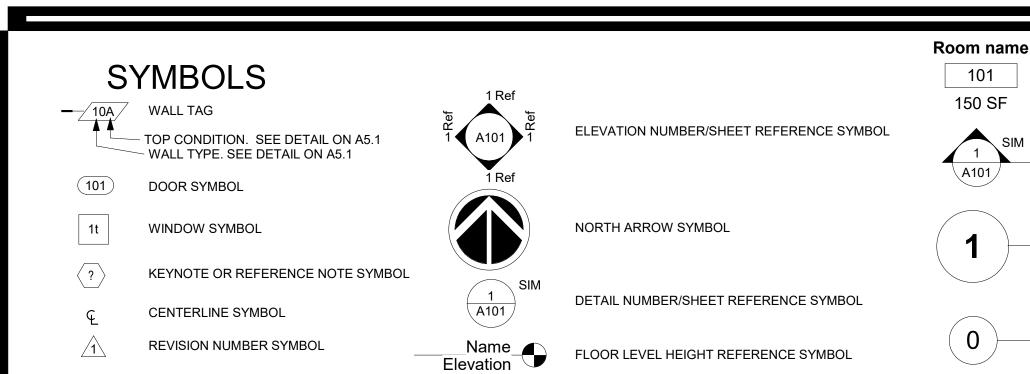
Mechanical Metal Minimum Miscellaneous New Not in Contract Number Not to Scale Over Occupants On Center Outside Diameter (Dim.) Owner Furnished Contractor Installed Opposite Plate Plastic Laminate Plywood Reference Reinforced Required Room Rough Opening South Solid Core Schedule Smoke Detector Section See Electrical Drawings Similar See Mechanical Drawings See Plumbing Drawings See Structural Drawings Standard Steel Storage Tongue and Groove Typical Unless Otherwise Noted Vinyl Composition Tile Verify In Field Vestibule With Wood Water Heater

Without

Weight

FENTON MCCOLLAN LA PALA SOUTI Y Econo Liquors & Food





## ARCHITECTURAL DRAWINGS

A0.1	COVER SHEET
A0.3A	CODES ANALYSIS
A0.3B	CODES ANALYSIS
A0.4A	CAL GREEN 1
A0.4B	CAL GREEN 2
A0.4C	CAL GREEN 3
A0.5	UNIVERSAL WASTE MANAGEMENT
A1.0	OVERALL SITE PLAN
A1.1	ENLARGED SITE PLAN
A1.2	EXISTING & DEMO LOWER FLOOR PLAN
A1.3	EXISTING & DEMO MAIN FLOOR PLAN
A2.1	PROPOSED MAIN FLOOR PLAN
A2.3	FINISH PLANS
A3.1	BUILDING ELEVATIONS
A3.2	ENTRY STOREFRONT
A4.1	ENLARGE PLAN -STAIR
A4.2	ENLARGED PLAN - TOILET
A4.3	ENLARGED PLAN - CANOPY
A5.1	SECTIONS & DETAILS
A6.0	SITE DETAILS
A6.1	DETAILS
STRUCTU	RAL DRAWINGS
S0.1	GENERAL NOTES

#### GENERAL NOTES PLANS AND DETAILS S1.0

MECHANICAL DRAWINGS

M0.01

M1.01 M7 01

MAIN FLOOR MECHANICAL PLAN MAIN FLOOR MECHANICAL PLAN MAIN FLOOR MECHANICAL PLAN

#### VICINITY MAP PROJECT DATA 599-32-002 APN TOTAL SITE AREA ----- SF. 27,435 SF. **EXISTING BUILDING AREA** San Jose Country Club PROPOSED BUILDING AREA 27,435 SF. LOWER LEVEL: 11,977 SF 13,658 SF MAIN LEVEL: MECH. MEZZANINE: 1,725 SF 27,360 SF A2, B, S2 OCCUPANCY 2 NUMBER OF STORIES TYPE OF CONSTRUCTION V-A YES FIRE SPRINKLERED **PROJECT LOCATION** 15571 ALUM ROCK AVE, SAN JOSE, CA DEFERRED SUBMITTALS ROOM TAG SYMBOL 1. DESIGN BUILD STAIR SECTION NUMBER/SHEET 2. PORTE COCHERE CANOPY REFERENCE SYMBOL **GOVERNING CODES** View Name CALIFORNIA BUILDING CODE 2019 CALIFORNIA ELECTRIC CODE 2019 1/8" = 1'-0" 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA PLUMBING CODE 2019 CALIFORNIA ENERGY CODE 2019 COLUMN OR GRID LINE SYMBOL CALIFORNIA FIRE CODE 2019 CALIFORNIA GREEN BUILDING STANDARD CODE 2019



## **GENERAL NOTES - 01 TI**

- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETION OF ALL WORK SHOWN, PRESCRIBED, AND REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS
- ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, ORDINANCES, 2 AND REGULATIONS AS ADOPTED BY FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DIMENSIONS ON DRAWINGS ARE SHOWN TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR FACE OF STUD AT WALLS AND PARTITIONS UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS
- WHERE APPLICABLE, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LANDSCAPE DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS EXPECTED TO AND SHALL REVIEW ALL PLANS AND DRAWINGS. IN THE EVENT OF CONFLICTING STATEMENTS, INSUFFICIENT INFORMATION OR ERRORS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATION BEFORE ANY WORK IS BEGUN. WORK INSTALLED WHERE CONFLICTING CONDITIONS EXIST SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- DIMENSIONS, DETAILS, NOTES AND/OR SYMBOLS THAT APPLY TO ONE UNIT, APPLY TO ALL UNITS IN LIKE SITUATIONS UNLESS NOTED OTHERWISE
- DETAILS NOTED AS 'TYPICAL' SHALL APPLY IN ALL LIKE CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION WITHIN THIS PROJECT.
- WHENEVER AN ARTICLE. DEVICE. OR PIECE OF EQUIPMENT IS SHOWN. INDICATED, OR REFERRED TO ON THE DRAWINGS OR THESE NOTES IN THE SINGULAR NUMBER. SUCH REFERENCES APPLY TO AS MANY SUCH ARTICLES AS ARE REQUIRED TO COMPLETE THE INSTALLATION.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO BEGINNING CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES OR UNIDENTIFIED CONDITIONS TO THE ARCHITECT FOR RESOLUTION BEFORE ANY WORK IS BEGUN. 9.THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO BEGINNING CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES OR UNIDENTIFIED
- CONDITIONS TO THE ARCHITECT FOR RESOLUTION BEFORE ANY WORK IS BEGUN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS. METHODS. TECHNIQUES 10 AND PROCEDURES EMPLOYED IN PERFORMANCE OF WORK IN, ON OR ABOUT THE JOB SITE. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL WORK PERFORMED BY SUB-CONTRACTORS.
- 11 ALL CONTRACTORS AND SUB-CONTRACTORS PERFORMING WORK ON, OR RELATED TO THIS PROJECT SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUB-CONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AS WELL AS WITH ANY AND ALL OTHER APPLICABLE FEDERAL, STATE AND/OR LOCAL SAFETY REGULATIONS, HOLDING COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THE REQUIREMENT TO UPHOLD ALL RESPONSIBILITY FOR PROJECT SAFETY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
- 12 THE STRUCTURE AS DRAWN AND DESCRIBED IN THESE PLANS AND SPECIFICATIONS IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL PROVIDE ALL APPROPRIATE TEMPORARY CONSTRUCTION TECHNIQUES USED FOR STABILITY, INCLUDING BUT NOT LIMITED TO THE SHORING AND BRACING NECESSARY TO ENSURE THE STABILITY OF ANY AND ALL PARTS OF THE BUILDING DURING CONSTRUCTION.
- 13 UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE MODIFIED WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT.
- 14 AS NECESSARY FOR SOUND INSTALLATION, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR MISCELLANEOUS EQUIPMENT INCLUDING PLYWOOD BACKBOARDS FOR TELEPHONE AND ELECTRICAL EQUIPMENT ROOMS. ALL NECESSARY BRACING. STIFFENERS BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS ARE NOT NECESSARILY REPRESENTED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, AND CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE PLACEMENT AND DISBURSEMENTS OF ATTACHING MEMBERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL AND PERMITS FOR ALL DESIGN/BUILD SYSTEMS, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR VERIFICATION THAT ALL SYSTEMS MEET APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
- 16 ANY MODIFICATIONS TO THE BUILDING SHELL RESULTING FROM DESIGN/BUILD REQUIREMENTS SHALL BE REPORTED IN WRITING TO THE OWNER AND ARCHITECT. ATTACHED TO SAID WRITTEN NOTIFICATION OF MODIFICATIONS TO 11 THE BUILDING SHELL, ANY AND ALL REQUIRED COSTS OR SAVINGS SHALL BE DETAILED PRIOR TO CONSTRUCTION FOR APPROPRIATE DESIGN CONSIDERATION. ANY MODIFICATION NOT REPORTED TO THE OWNER AND ARCHITECT WILL BE ASSUMED BY THE CONTRACTOR AS TO THE APPROPRIATE COORDINATION, CODE COMPLIANCE AND ADDITIONAL COST SATISFACTION.
- NEITHER THE ARCHITECT'S REVIEW NOR APPROVAL OF SHOP DRAWINGS SHALL RELIEVE THE GENERAL CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS UNLESS THE CONTRACTOR HAS IDENTIFIED THE DEVIATION AND CALLED THE ARCHITECT'S ATTENTION TO SUCH DEVIATION IN WRITING AT THE TIME OF SUBMISSION. ABSENT WRITTEN NOTIFICATION AND CONFIRMATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.
- 18 INSTALLATION OF GLASS SHALL CONFORM TO THE CONSUMER PRODUCT SAFETY COMMISSION'S FEDERAL SPECIFICATION 16-CFR-1201 SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS. GLASS SUBJECT TO HUMAN IMPACT, INCLUDING BUT NOT LIMITED TO STORM DOORS, DOORS, BATHTUB DOORS, SHOWER DOORS AND SLIDING GLASS DOORS, AND SHALL COMPLY WITH U.S. CONSUMER PRODUCT SAFETY STANDARDS TO MEET THE IMPACT AND ENVIRONMENTAL TEST REQUIREMENTS OF SECTION 1201.4. FURTHER, APPLICABLE GLASS SHALL BE LABELED BY MANUFACTURERS IN ACCORDANCE WITH SECTION 1201.5. LABELING TO INCLUDE THE DATE AND PLACE OF MANUFACTURE, A SUITABLE IDENTIFICATION OF THE MANUFACTURER, AND CERTIFICATION THAT THE GLASS MEETS ALL APPLICABLE CONSUMER PRODUCT SAFETY STANDARDS.
- 19 THE CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES, IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK
- 20 ALL MATERIALS AND FINISHES INDICATED ON PLANS SHALL BE NEW AND UNUSED, UNLESS NOTED OTHERWISE
- PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL VERIFY WITH 21 ANY EXISTING TENANT AND/OR OWNER AS TO THE LOCATION OF ALL ELECTRICAL AND PLUMBING OUTLETS, AS WELL AS ANY OTHER FEATURE UNIQUE TO THIS PROJECT. THE CONTRACTOR IS ADVISED TO MEET WITH THE TENANT AND/OR OWNER, OR THEIR AGENT(S) ON THE JOB SITE TO ACCOMPLISH THE ABOVE VERIFICATIONS.
- 22 THE CONTRACTOR SHALL PERFORM ANY AND ALL CUTTING, PATCHING, REPAIR, 13 AND RESTORATION AS NECESSARY TO COMPLETE THE WORK AND TO REMEDY ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THE ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECT AND THE OWNER.
- 23 THE BUILDING AND FACILITIES MUST BE ACCESSIBLE TO, AND FUNCTION FOR, THE PHYSICALLY HANDICAPPED PER C.C.R. TITLE 24, ACCESSIBILITY REGULATIONS, AND PER THE U.S. AMERICAN WITH DISABILITIES ACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, MOUNTING, AND 24 DISPLAYING ARCHITECT'S JOB SIGN. CONTRACTOR SHALL ALSO RETURN JOB SIGN TO ARCHITECT AT COMPLETION OF PROJECT IN GOOD CONDITION. **GENERAL NOTES - 02 PARTITIONS**
- ALL STUDS AT NON-BEARING, INTERIOR PARTITIONS SHALL BE CONSTRUCTED OF STEEL THREE AND FIVE-EIGHTHS INCH (3-5/8") WIDE BY TWENTY-FIVE (25) GAGE, OR ALTERNATIVELY, 2X4 DF. #2 (MIN.) AT TWENTY-FOUR INCH (24") O.C. UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL HEAVIER GAGE STUDS, STIFFENERS, BRACING
- BACK-UP PLATES, ETC., AS REQUIRED AT STUD WALLS FOR SUPPORT OF TOILET ROOM FIXTURE OR OTHER EQUIPMENT.
- SEE WALL LEGENDS OR CALLOUTS ON PLANS FOR GYPSUM BOARD THICKNESS AND FIRE RATING, AND FOR INSULATION AS REQUIRED
- ALL GYPSUM BOARD USED AT WALLS IN JANITOR'S ROOMS AND ALL TOILET ROOMS SHALL BE WATER RESISTANT.

# **GENERAL NOTES - 03 FIRE PROTECTION**

PROVIDE ALL APPLICABLE FIRE PROTECTION FOR BUILDING AS PER CONSTRUCTION REQUIREMENTS AND ACCORDING TO FEDERAL, STATE AND LOCAL REGULATION GOVERNING THIS PROJECT.

REQUIRED EXIT DOORS SHALL MEET THE FOLLOWING REQUIREMENTS: BEFORE AND DURING CONSTRUCTION OF AN EXISTING BUILDING THAT RETAINS TENANTS AND/OR PROPERTY RELIANT ON FIRE RESISTANT ASSEMBLIES, A.SHALL BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL PROTOCOLS OR SPRINKLER SYSTEMS. IF SUCH FIRE RESISTANT ASSEMBLIES. KNOWLEDGE OR EFFORT. THIS NEED NOT APPLY TO THE MAIN EXTERIOR EXIT PROTOCOLS OR SPRINKLER SYSTEMS ARE ADAPTED, ADJUSTED, TEMPORARILY DOOR OR DOORS IN OCCUPANCY GROUP A HAVING AN OCCUPANT LOAD OF 300 AND/OR PERMANENTLY DISABLED. THEN CONTRACTOR SHALL INSURE THAT ALL OR LESS, GROUPS B, F, M, AND F THAT ARE PROVIDED WITH A LOCKING DEVICE FIRE VULNERABILITIES ARE SAFEGUARDED, THE SAFETY AND WELFARE OF READILY VISIBLE AS LOCKED AND AN ADJACENT SIGN STATING "THIS DOOR TO EXISTING TENANTS AND/OR PROPERTY IS PROTECTED, AND ALL PROCEDURES REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THE SIGN SHALL BE IN FOR COMPLIANCE WITH THE LOCAL FIRE MARSHALL'S DICTATES ARE SATISFIED LETTERS 1 INCH (25 mm) HIGH ON A CONTRASTING BACKGROUND. IN AN ASSURANCE OF THE SAFETY AND PROTECTION OF THE TENANTS AND PROPERTY PRESENT DURING THE TIME OF TRANSITION BETWEEN THE BEGINNING OF CONSTRUCTION AND FINAL PROJECT DELIVERY.

PROVIDE AND INSTALL MATERIALS FOR FIRE PROTECTION OF THE STRUCTURAL ASSEMBLIES OF THIS BUILDING TYPE, AS REQUIRED BY THE BUILDING CODE. CORRIDORS, ELEVATOR LOBBIES, AND LOBBIES SHALL BE ONE (1) HOUR FIRE-RATED CONSTRUCTION WHERE REQUIRED BY CODE. ONE (1) HOUR FIRE-RATED PARTITIONS INCORPORATING METAL STUD CONSTRUCTION SHALL BE ASSEMBLED PER ITEM #13-1.1 TABLE 721.1(2), CALIFORNIA BUILDING CODE, TITLE 24, PART 2.

DOORS OPENING INTO ONE (1) HOUR FIRE-RESISTIVE CORRIDORS SHALL BE

PROTECTED WITH SMOKE AND DRAFTSTOP FIRE ASSEMBLIES HAVING A MINIMUM OF A TWENTY (20) MINUTE FIRE-RESISTIVE RATING WITH SELF-CLOSURES. STAIR ENCLOSURES. WHERE REQUIRED. SHALL BE OF ONE (1) HOUR MINIMUM FIRE-RESISTIVE CONSTRUCTION. ALL DOORS OPENING INTO STAIR ENCLOSURE SHALL BE PROTECTED BY A ONE (1) HOUR SELF-CLOSING FIRE ASSEMBLY. PER CBC SECTION 703.7 FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALLS REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL

A)BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE;

B)BE LOCATED WITHIN FIFTEEN FEET (15') OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING THIRTY FEET (30') MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND

C)INCLUDE LETTERING NOT LESS THAN THREE INCHES (3") IN HEIGHT WITH A MINIMUM THREE-EIGHTS INCH (3/8") STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS" OR OTHER WORDING.

EXCEPTION: WALLS IN GROUP R-2 OCCUPANCIE THAT DO NOT HAVE A RELMOVABLE DECORATIVE CEILING ALLOWING ACCESS TO THE CONCEALED SPACE.

PROVIDE AND INSTALL FIRE/SMOKE DAMPERS WHERE AIR DUCTS PENETRATE A 4 FIRE-RATED WALL OR CEILING, IN ADDITION TO ANY LOCATIONS REQUIRED BY CODE OR LOCAL GOVERNING AGENCY.

WHERE NON-COMBUSTIBLE CONDUIT, PIPES, OR VENTS PENETRATE A FIRE-RATED ASSEMBLY, PROVIDE AND INSTALL APPROVED FIRE-RATED SEALANT 5 OF MINERAL WOOL FILLER TO DRAFTSTOP AND MAINTAIN THE FIRE SAFE

INTEGRITY OF THE ASSEMBLY. RETURN AIR PLENUMS BETWEEN FLOOR OR ROOF ASSEMBLIES AND SUSPENDED CEILINGS BELOW SHALL MEET THE FOLLOWING REQUIREMENTS:

NO EXPOSED MATERIALS WITHIN THE PLENUM WITH A FLAME SPREAD RATING MORE THAN TWENTY-FIVE (25) OR A SMOKE DEVELOPED RATING MORE THAN FIFTY (50).

A.ALL WIRING IN PLENUM SHALL BE IN NON-COMBUSTIBLE CONDUIT OR SHALL BE PLENUM RATED CABLE.

B.WHERE GYPSUM PRODUCTS ARE EXPOSED WITHIN THE PLENUM, AIR TEMPERATURE SHALL BE RESTRICTED TO A RANGE NOT LESS THAN FIFTY DEGREES (50°) OR MORE THAN ONE HUNDRED TWENTY-FIVE DEGREES (125°) FAHRENHEIT, FURTHER, MOISTURE CONTENT SHALL BE CONTROLLED SO THAT THESE PRODUCTS ARE NOT ADVERSELY AFFECTED.

C.ALL EXPOSED COMBUSTIBLE FRAMING MEMBERS AND FINISH SURFACES WITHIN RETURN AIR PLENUMS SHALL BE COVERED WITH A MINIMUM OF ONE (1) LAYER ONE-HALF INCH (1/2") TYPE 'X' GYPSUM BOARD SECURELY NAILED OR OTHERWISE FASTENED PER APPLICABLE CODE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FURRING, BLOCKING AND TAPE JOINTS AS REQUIRED.

D.WITH THE APPROVAL OF AUTHORIZED BUILDING OFFICIAL, FIRE-RETARDANT WOOD PER BUILDING CODE MAY BE EXPOSED WITHOUT COVER IN RETURN AIR PLENUMS.

PROVIDE DRAFT STOPS PER CALIFORNIA BUILDING CODE SECTION 718.4.3 IN EXPOSED COMBUSTIBLE CONSTRUCTION AS FOLLOWS: DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES. SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED THREE THOUSAND (3.000) SQUARE FEET.

#### EXCEPTIONS

12

17

A.IN OTHER THAN HIGH-RISE BUILDINGS, GROUP A, E, H, I AND L OCCUPANCIES AND OTHER APPLICATIONS LISTED IN SECTION 1111 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

B.IN HIGH-RISE BUILDINGS, GROUP A, E, H, I AND L OCCUPANCIES AND OTHER APPLICATIONS LISTED IN SECTION 111 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHALL, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFTS STOPS MAY BE NINE THOUSAND (9,000) SQUARE FEET AND THE GREATEST HORIZONTAL DIMENSION MAY BE ONE HUNDRED (100) FEET.

INTERIOR WALLS AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723 AND GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES:

CLASS A	FLAME SPREAD 0-25 SMOKE-DEVELOPED 0-450	
CLASS B	FLAME SPREAD 26-75 SMOKE-DEVELOPED 0-450	
CLASS C	FLAME SPREAD 76-200	

SMOKE-DEVELOPED 0-450

REFERENCE TABLE 803.9: INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY, CHAPTER 8 OF THE 2013 CALIFORNIA BUILDING CODE FOR

DEFINITION OF THE MAXIMUM FLAME SPREAD CLASSIFICATIONS AS IT CONCERNS CLASS A, B AND C.

CARPETING WHEN PLACED ON WALLS SHALL HAVE A CLASS A FLAME SPREAD RATING.

- WHERE REQUIRED OR SPECIFIED, PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM AND ALARM. SPRINKLER SYSTEM PLANS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO SUBMITTAL TO LOCAL AGENCIES FOR REVIEW AND APPROVAL. ARCHITECT SHALL REVIEW SYSTEM LAYOUT AND HEAD DISTRIBUTION PRIOR TO AGENCY SUBMITTAL AND CONTRACTOR INSTALLATION. SEPARATE PLAN CHECK AND PERMITS ARE REQUIRED AS PER BUSINESS ACTIVITY, AND ANY CHANGES TO ACCOMMODATE FIELD CONDITIONS SHALL BE RESUBMITTED AT THE CONTRACTORS EXPENSE WITH NO ADDITIONAL CHARGE TO THE OWNER. WHERE ENUNCIATOR PANELS, ALARMS, ETC. ARE REQUIRED IN AN EXPOSED LOCATION, CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS AND CABINET/COVER PLATE FINISHES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- PROVIDE PORTABLE FIRE EXTINGUISHERS OF TYPE, QUANTITY, AND LOCATION 15 DETERMINED BY FIRE DEPARTMENT INSPECTOR.
- PROVIDE AND INSTALL WET OR DRY STANDPIPES AS REQUIRED BY CODE AND/OR
- THE LOCAL FIRE DEPARTMENT PROVIDE AND INSTALL OUTSIDE GAS SHUT-OFF VALVE AND SIGNS IDENTIFYING MAIN GAS AND ELECTRICAL SHUT-OFFS PER DIRECTION OF LOCAL FIRE
- DEPARTMENT PROVIDE SMOKE DETECTORS, DUCT DETECTORS AND OTHER SUCH DETECTION 18
- DEVICES AS MAY BE REQUIRED BY CODES AND/OR GOVERNING AUTHORITIES HAVING JURISDICTION.

EXCEPTION: MATERIALS TESTED IN ACCORDANCE WITH SECTION 803.1.2.

# **GENERAL NOTES - 04 EXITS & OCCUPANT** LOADS

B.FLOOR ELEVATION. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) PER CBC 1008.1.5.

C.THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 INCH (12.7 MM) ABOVE THE FINISHED FLOOR OR LANDING FOR DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4 INCH (6.4 MM) AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50-PERCENT SLOPE) PER CBC 1008.1.7.

D.ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING MORE THAN FIFTY (50) OCCUPANTS OR A GROUP H OCCUPANCY PER CBC SECTION 1008.1.2.

E.PANIC HARDWARE SHALL BE PROVIDED ON EXIT DOORS THAT SERVICE GROUP H OCCUPANCIES AND SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF FIFTY (50) OR MORE IN A GROUP A OCCUPANCY, INCLUDING DOORS OF CORRIDORS AND STAIRWAYS UNTIL EGRESS IS PROVIDED FROM THE BUILDING.

F.ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPERES OR MORE AND OVER 6 FEET (1829 MM) WIDE THAT CONTAIN OVERCURRENT DEVICES. SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.

G.SHALL BE NOT LESS THAN THREE FEET. ZERO INCHES (3'-0") WIDE BY SIX FEET. EIGHT INCHES (6'-8") HEIGHT WITH NO SINGLE LEAF EXCEEDING FOUR FEET, ZERO INCHES (4'-0") IN WIDTH. DOOR SHALL BE CAPABLE OF OPENING AT LEAST NINETY DEGREES (90°) AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF EXIT WAY IS NOT LESS THAN THIRTY-TWO INCHES (32") CLEAR.

- THE FLOOR ADJACENT TO DOORS AND DOORWAYS SHALL BE LEVEL FOR A DISTANCE AS SHOWN IN FIGURE #25 ON THIS SHEET. ILLUMINATED EXIT SIGNS SHALL BE PROVIDED WHERE REQUIRED BY, AND IN
- ACCORDANCE WITH, APPLICABLE LAWS. ALL REQUIRED EXITS SHALL HAVE EXIT SIGNS AND ALL BLIND CORRIDOR TURNS SHALL HAVE DIRECTIONAL EXIT SIGNS WITH A PRINCIPAL STROKE NOT LESS THAN THREE-FOURTHS INCH (3/4") WIDE AND SIX INCHES (6") HIGH AND AS
- REQUIRED BY THE LOCAL FIRE MARSHALL WALLS AND CEILING OF CORRIDORS SHALL BE ONE (1) HOUR MINIMUM FIRE
- RATED CONSTRUCTION WHERE NOTED ON PLAN. TACTILE EXIT SIGNS PER CALIFORNIA BUILDING CODE SECTION 1011.4, SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:

A.EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT".

B.EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:

i. "EXIT STAIR DOWN" ii."EXIT RAMP DOWN" iii."EXIT STAIR UP"

iv "FXIT RAMP UP" C.EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".

D.EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".

E.EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH WORDS, "TO EXIT". GENERAL NOTES - 05 MECH., PLUMB., &...

- IN ADDITION TO THOSE SHOWN ON THE DRAWINGS AND AFTER APPROVAL BY ARCHITECT, PROVIDE AND LOCATE ACCESS DOORS AND/OR PANELS IN CEILING AND WALL CONSTRUCTION AS REQUIRED AND NECESSARY FOR INSTALLATION AND MAINTENANCE OF MECHANICAL, FIRE SPRINKLER, PLUMBING AND ELECTRICAL INFRASTRUCTURE.
- PRIOR TO PROCEEDING WITH CONTRACTED WORK, CONTRACTOR SHALL VERIFY SIZE. LOCATIONS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PLATFORMS, INCLUDING BUT NOT LIMITED TO PLATFORM BASES, ANY POWER SUPPLY, NECESSARY WATER SOURCE OUTLETS AND DRAIN INSTALLATION WITH EQUIPMENT MANUFACTURERS PRIOR TO PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR CONTRACTOR'S SUBSTITUTIONS SHALL
- BE MADE WITHOUT ADDITIONAL CHARGE TO OWNER. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL VERIFY SIZE, SHAPE AND LOCATION OF HOUSEKEEPING PADS FOR THEIR EQUIPMENT. ANY FIELD CHANGES
- SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE OWNER. WHERE RESTROOMS ARE PROVIDED, MECHANICAL VENTILATION SHALL BE PROVIDED TO ENSURE AN AIR EXCHANGE EACH FIVE (5) MINUTES.

## **GENERAL NOTES - 06 ACCESSIBILITY REQ'S**

RAMPS TO BUILDING SHALL COMPLY WITH THE FOLLOWING CONDITIONS:

A.RAMPS SHALL BE CONSTRUCTED WITH SLIP RESISTANT SURFACES.

B.MINIMUM WIDTH OF RAMPS SHALL BE FORTY-EIGHT INCHES (48"). REFER TO PLANS FOR ACTUAL DIMENSIONS.

C.RAMP SLOPE SHALL BE AT A MINIMUM OF 1:20 AND A MAXIMUM OF 1:12 SLOPE. CROSS SLOPE SHALL BE AT A MAXIMUM OF ONE-FOURTH INCH (1/4") PER ONE FOOT (1'), AND WITH A MAXIMUM RISE OF THIRTY INCHES (30") FOR ANY CONTINUOUS RUN.

D.HANDRAILS SHALL BE PROVIDED ON EACH SIDE. THE TOP OF THE GRIPPING SURFACE SHALL BE 34" MINIMUM AND 38" MAXIMUM FOR SLOPES EXCEEDING 1:20 AND ANY RISE GREATER THAN SIX INCHES (6"). THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP AND SHALL EXTEND ONE FOOT (1') BEYOND THE TOP AND BOTTOM OF THE RAMP. HANDRAILS SHALL RETURN AT TERMINUS AT THE END OF RAMP

E.REQUIRED RAMPS SHALL HAVE A CURB AT LEAST FOUR INCHES (4") HIGH, OR A WHEEL GUIDE RAIL TWO INCHES (2") TO FOUR INCHES (4") HIGH ON EACH SIDE OF THE RAMP LANDING THAT HAS A VERTICAL DROP EXCEEDING FOUR INCHES (4") AND THAT IS NOT BOUNDED BY A WALL OR FENCE.

F.WHERE THE RAMP SURFACE IS NOT BOUNDED BY A WALL, THE RAMP SHALL PROVIDE EITHER:

i.A GUIDE CURB A MINIMUM OF TWO INCHES (2") IN HEIGHT AT EACH SIDE OF THE

iiA WHEEL GUIDE RAIL CENTERED THREE INCHES (3")PLUS OR MINUS ONE INCH (1") ABOVE THE SURFACE OF THE RAMP.

G.LANDINGS 1. TOP LANDINGS SHALL BE SIXTY INCHES (60") SQUARE MINIMUM OR AT LEAST FORTY-TWO INCHES (42"+) IN ADDITION TO THE DOOR WIDTH SQUARE WHERE DOOR

ENCROACHES THE ROUTE OF CIRCULATION. 2. INTERMEDIATE LANDINGS SHALL BE SIXTY INCHES (60") LONG AT INCIDENTS OF A STRAIGHT RAMP, SEVENTY-TWO INCHES (72") LONG AT INCIDENTS OF A CHANGE IN DIRECTION OVER THIRTY DEGREES (30°). THE MAXIMUM CHANGE IN HEIGHT

3. BOTTOM LANDINGS SHALL BE SEVENTY-TWO INCHES (72") LONG.

BETWEEN LANDINGS SHALL BE THIRTY INCHES (30").

#### GENERAL NOTES - 06 ACCESSIBILITY REQ'S **GENERAL NOTES - 06 ACCESSIBILITY REQ'S** 2 STAIRS AND HANDRAILS PER CALIFORNIA BUILDING CODE WHERE NECESSARY SHALL LAVATORIES SHALL COMPLY WITH THE FOLLOWING INCLUDE THE FOLLOWING FEATURES: REQUIREMENTS: C-13326 A.TREADS SHALL BE SMOOTH WITH ROUNDED OR CHAMFERED EDGES AT TOP AND A.AT LAVATORIES. THE KNEE CLEARANCE SHALL BE 27 INCHES (686 MM) HIGH BOTTOM OF NOSING AND EXTEND FOR A MINIMUM OF ELEVEN INCHES (11"). MINIMUM ABOVE THE FINISH FLOOR OR GROUND AT A DEPTH OF 8 INCHES (203 MM) MINIMUM INCREASING TO 29 INCHES (737 MM) HIGH MINIMUM ABOVE THE FINISH B.NOSING SHALL EXTEND A MAXIMUM OF ONE AND ONE-QUARTER INCHES (1-1/4") FLOOR OR GROUND AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY BEYOND THE FACE OF RISER. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF OR AT THE FRONT EDGE OF A WALL-MOUNTED LAVATORY FIXTURE. JF CAL THE TREAD SHALL BE NO GREATER THAN ONE-HALF INCH (1/2"). RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN B.A CLEAR FLOOR SPACE THIRTY INCHES (30") WIDE BY FORTY-EIGHT INCHES (48") LONG SHALL BE PROVIDED IN FRONT OF THE LAVATORY. SAID REQUIRED CLEAR THIRTY DEGREES (30°) FROM THE VERTICAL PLANE. SPACE MAY INCLUDE THE TOE AND KNEE SPACE LOCATED UNDER THE LAVATORY. C.RISERS SHALL BE CLOSED AT A MINIMUM OF A FOUR INCH (4") MINIMUM AND AT A C.NO SHARP OR ABRASIVE SURFACES SHALL BE LEFT UNPROTECTED UNDER MAXIMUM OF A SEVEN INCH (7") RISE. LAVATORIES, AND HOT WATER AND DRAIN PIPES SHALL BE COVERED OR INSULATED D.HANDRAILS, WHERE REQUIRED, THE TOP OF THE GRIPPING SURFACE SHALL BE +34" TO PROTECT USERS FROM HARM. MINIMUM AND 38" MAXIMUM ABOVE THE NOSING OR TREADS, FURTHER, HANDRAILS D.FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE SHALL EXTEND TWELVE INCHES (12") BEYOND TOP OF NOSING AND TWELVE INCHES (12") PLUS ONE TREAD WIDTH BEYOND BOTTOM NOSING AT EACH LANDING. HAND AND NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST. THE HANDRAILS SHALL RETURN AND EXTEND TO THE FACE OF THE INTERSECTION WALL FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED FIVE POUNDS (5#). ₽ OR TERMINUS. TOILET ROOM ACCESSORIES SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS IN ADDITION TO DRAWN PLANS: E.PROVIDED ON THE STAIR SURFACE SHALL BE A 2" WIDE TO A 4" WIDE MAXIMUM STRIP OF EQUALLY SLIP RESISTANT MATERIAL IN CONTRASTING COLOR AT NOT MORE THAN ONE INCH (1") FROM THE EDGE OF THE LOWER TREAD AND THE UPPER A.DISPENSERS AND DISPOSAL FIXTURES SHALL HAVE OPERABLE PARTS AND/OR Œ OPENINGS LOCATED AT A MINIMUM OF TWENTY-FOUR INCHES (24") AND A MAXIMUM OF APPROACH TO EACH STAIR. THE EXTERIOR OF ALL TREADS SHALL BE SIMILARLY <u>\_\_\_</u> MARKED WITH PAINT OR OTHER ACCEPTABLE MATERIAL. FORTY INCHES (40") ABOVE THE FINISH FLOOR. \_ B.BOTTOM EDGE OF MIRRORS MOUNTED ABOVE LAVATORIES OR COUNTER TOPS 3 DOORS AND HARDWARE SHALL COMPLY WITH THE FOLLOWING CONDITIONS: U SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE FORTY INCHES (40") MAXIMUM ABOVE THE FINISH FLOOR. MIRRORS NOT LOCATED ABOVE A.OPENINGS SHALL BE A MINIMUM OF THIRTY-TWO INCHES (32") WIDE BY EIGHTY O LAVATORIES OR COUNTER TOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF INCHES (80") HIGH WHEN DOOR IS OPEN AND AT A RIGHT ANGLE TO CLOSED POSITION. THE REFLECTING SURFACE THIRTY-FIVE INCHES (35") MAXIMUM ABOVE FINISHED FLOOR B.AT THE BASE OF THE DOOR, THE BOTTOM TEN INCHES (10") OF SAID DOOR SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE FOR OPENING BY WHEELCHAIR FOOT PROTRUDING OBJECTS IN PATH OF TRAVEL SHALL COMPLY WITH THE FOLLOWING REST. REQUIREMENTS: C.THE OPERABLE PARTS OF HARDWARE COMPONENTS SHALL BE THIRTY FOUR A.OBJECTS PROTRUDING FROM WALLS WITH THEIR LEADING EDGE BETWEEN INCHES (34") TO FORTY-FOUR INCHES (44") ABOVE FLOOR. LATCHING DOOR TWENTY-SEVEN INCHES (27") AND EIGHTY INCHES (80") ABOVE THE FINISHED FLOOR HARDWARE SHALL BE AS SUCH THAT LOCKING SHALL BE OPERABLE WITH A SINGLE SHALL PROTRUDE NO MORE THAN FOUR INCHES (4") INTO WALKS, HALLS, EFFORT BY LEVER, OR IN THE ALTERNATIVE, VIA A PUSH-PULL TYPE HARDWARE. CORRIDORS, PASSAGEWAYS, AND/OR AISLES, OBJECTS MOUNTED ON POSTS AND/OR PYLONS MAY OVERHANG A MAXIMUM DISTANCE OF TWELVE INCHES (12") ANYWHERE D.MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED FIVE POUNDS (5#) FOR BETWEEN TWENTY-SEVEN INCHES (27") TO EIGHTY INCHES (80") ABOVE THE GROUND EXTERIOR DOORS AND FIVE POUNDS (5#) FOR INTERIOR DOORS, WITH A PULL OR OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE AS SUCH. CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES, INCLUDING BUT NOT LIMITED TO AUTOMATIC DOOR OPERATORS, MAY BE UTILIZED TO B.WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES AND ALL OTHER CIRCULATION MEET THE ABOVE ENUMERATED STANDARDS. UNDER SUCH CONDITIONS WHEREBY SPACES SHALL HAVE A VERTICAL CLEARANCE OF 80 INCHES HIGH MINIMUM. FIRE DOORS ARE REQUIRED, ALLOWANCES FOR THE MAXIMUM EFFORT TO OPERATE GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL THE FIRE DOOR MAY BE INCREASED UP TO, BUT NOT TO EXCEED, FIFTEEN POUNDS CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL (15#) WITH CLOSER. OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A GUY SUPPORT IS USED PARALLEL TO A CIRCULATION PATH, E.PROVIDE SIGNAGE ON DOORWAYS LEADING TO SANITARY FACILITIES AS FOLLOWS: INCLUDING BUT NOT LIMITED TO SIDEWALKS, A GUY BRACE, SIDEWALK GUY OR SIMILAR DEVICE SHALL BE USED TO PREVENT AN OVERHANGING OBSTRUCTION. Ω MEN'S SANITARY FACILITIES SHALL INCLUDE SIGNAGE THAT IS ONE-FOURTH INCH (1/4") THICK, IS SHAPED IN THE FORM OF AN EQUILATERAL TRIANGLE WITH TWELVE EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCH (12") SIDES, AND ORIENTED SO THAT THE VERTEX IS POINTED UPWARDS. INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. WOMEN'S SANITARY FACILITIES SHALL INCLUDE SIGNAGE THAT IS ONE-FOURTH INCH 10 ELECTRICAL OUTLETS AND RECEPTACLES SHALL COMPLY WITH THE FOLLOWING (1/4") THICK, IS SHAPED IN THE FORM OF A CIRCLE WITH A TWELVE INCH (12") REQUIREMENTS: DIAMETER. A.15-20-30 AMPERE RECEPTACLE SHALL BE INSTALLED NOT LESS THAN FIFTEEN PROVIDE BRAILLE SIGNAGE ON WALLS ADJACENT TO LATCH SIDE OF THE DOOR SO INCHES (15") ABOVE THE FINISHED FLOOR, MEASURED FROM THE BOTTOM OF THE M THAT A PERSON SHALL BE ABLE TO APPROACH THE SIGN WITHIN THREE INCHES (3") OUTLET BOX, AND NOT MORE THAN 48 INCHES (48") ABOVE THE FINISHED FLOOR, WITHOUT INTERFERENCE FROM PROTRUDING OBJECTS OR THE SWING OF THE MEASURED FROM THE TOP OF THE OUTLET BOX. DOOR. BRAILLE SIGNAGE SHALL BE CENTERED AT SIXTY INCHES (60") HEIGHT, AND Ζ FINISHED IN A COLOR CONTRASTING TO THAT OF THE DOOR. 111 B.THE SWITCH FOR LIGHT, APPLIANCE, OR OTHER GENERAL USES SHALL BE LOCATED NOT LESS THAN FIFTEEN INCHES (15") ABOVE THE FINISHED FLOOR, MEASURED FROM F.IF A DOOR AND HAS A CLOSER, THE CLOSERS SHALL BE ADJUSTED SO THAT FROM THE BOTTOM OF THE OUTLET BOX, AND NOT MORE THAN 48 INCHES (48") ABOVE THE AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A FINISHED FLOOR, MEASURED FROM THE TOP OF THE POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC OUTLET BOX. SECTION 11B-404.2.8.1. G.DOOR THRESHOLDS WHERE PROVIDED SHALL BE A MAXIMUM OF ONE-HALF INCH (1/2") HIGH WITH A 1:2 MAXIMUM BEVEL AT THE UPPER ONE-QUARTER INCH (1/4") EDGE. S DRINKING FOUNTAINS ARE TO BE IN ALCOVES OR POSITIONED SO AS NOT TO BE IN A D CORRIDOR AND SHALL MEET THE FOLLOWING REQUIREMENTS: A.ALCOVE SHALL BE A MINIMUM OF THIRTY-TWO INCHES (32") WIDE BY EIGHTEEN INCHES (18") DEEP INCORPORATING A "HI-LOW" COMBINATION DRINKING FOUNTAIN. MOUNTED TO PROVIDE A TWENTY-SEVEN INCH (27") HIGH KNEE CLEARANCE AND NINE INCH (9") HIGH TOE CLEARANCE UNDERNEATH ONE DRINKING FOUNTAIN. B.ONE DRINKING FOUNTAIN SHALL BE ORIENTED SO AS TO ALLOW A FRONT APPROACH, INCORPORATING A HAND OPERATED LEVER WITHIN SIX INCHES (6") OF THE FRONT OF THE FOUNTAIN AND THIRTY-THREE INCHES (33") ABOVE THE FLOOR. SAID DRINKING FOUNTAIN SHALL AS WELL INCORPORATE A WATER STREAM THAT SPRAYS PARALLEL TO THE FRONT EDGE OF THE FOUNTAIN. 5 ACCESSIBLE WATER CLOSET AND COMPARTMENTS SHALL MEET THE FOLLOWING REQUIREMENTS: A.WATER CLOSET SEAT HEIGHT TO BE A MINIMUM OF SEVENTEEN INCHES (17") AND A MAXIMUM OF NINETEEN INCHES (19"). FLUSH CONTROLS SHALL BE OPERABLE BY AN OSCILLATING HANDLE NO HIGHER THAN FORTY-FOUR INCHES (44") ABOVE THE FLOOR SURFACE AND SHALL BE MOUNTED ON THE OPEN SIDE OF THE TOILET WITH A MAXIMUM FORCE REQUIRED TO OPERATE OF FIVE POUNDS (5#), OR ALTERNATIVELY, BY A REMOTE CONTROL BUTTON. 05/03/2021 B.LOCATE CENTERLINE OF WATER CLOSET TOILET A MINIMUM OF SEVENTEEN INCHES Drawn (17") TO EIGHTEEN INCHES (18") MAXIMUM FROM ONE SIDE OF CLOSET WALL, SEE PLANS FOR REQUIRED CLEARANCES. Author Sheet Title C.TWO (2) GRAB BARS WITH AN ONE AND ONE-HALF INCH (1-1/2") OUTSIDE DIAMETER GENERAL NOTES SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE FOLLOWING DIRECTIONS: ONE FORTY-TWO INCH (42") LONG BAR SHALL BE MOUNTED ON THE NEAR SIDE WALL EXTENDING TWENTY-FOUR INCHES (24") BEYOND THE FRONT OF WATER CLOSET TOILET AND ONE THIRTY-SIX INCH (36") LONG BAR SHALL BE MOUNTED, CENTERED ON THE WATERCLOSET TWELVE INCHES (12") MINIMUM ON ONE SIDE AND TWENTY FOUR (24") MINIMUM ON THE OTHER SIDE. GRAB BARS SHALL BE INSTALLED THIRTY-THREE INCHES (33") MINIMUM AND THIRTY-SIX (36") MAXIMUM ABOVE THE FLOOR SURFACE AND AT ONE AND ONE-HALF INCHES (1-1/2") CLEAR FROM THE WALL SURFACE. GRAB BARS SHALL BE INSTALLED SO AS TO SUPPORT A TWO HUNDRED FIFTY POUND (250#) LOAD IN ANY DIRECTION. Revisions D.A TISSUE DISPENSER SHALL BE LOCATED ON THE NEAR SIDE WALL SEVEN INCHES (7") MINIMUM AND NINE INCHES (9") MAXIMUM IN FRONT OF TOILET SEAT AT A MINIMUM OF NINETEEN INCHES (19") ABOVE THE FLOOR SURFACE AND SHALL NOT BE LOCATED BEHIND THE GRAB BAR. 6 ACCESSIBLE URINALS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: A.URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH AN ELONGATED RIM LOCATED AT A MAXIMUM OF SEVENTEEN INCHES (17") ABOVE THE FLOOR SURFACE AND THIRTEEN AND ONE-HALF INCHES (13 1/2") MINIMUM MEASURED FROM OUTER FACE OF URINAL RIM TO BACK OF FIXTURE. B.A CLEAR FLOOR SPACE THIRTY INCHES (30") BY FORTY-EIGHT INCHES (48") SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH AND SAID THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNL HE ARCHITECT'S STAMP AND SIGNATURE APPEAR ON THE

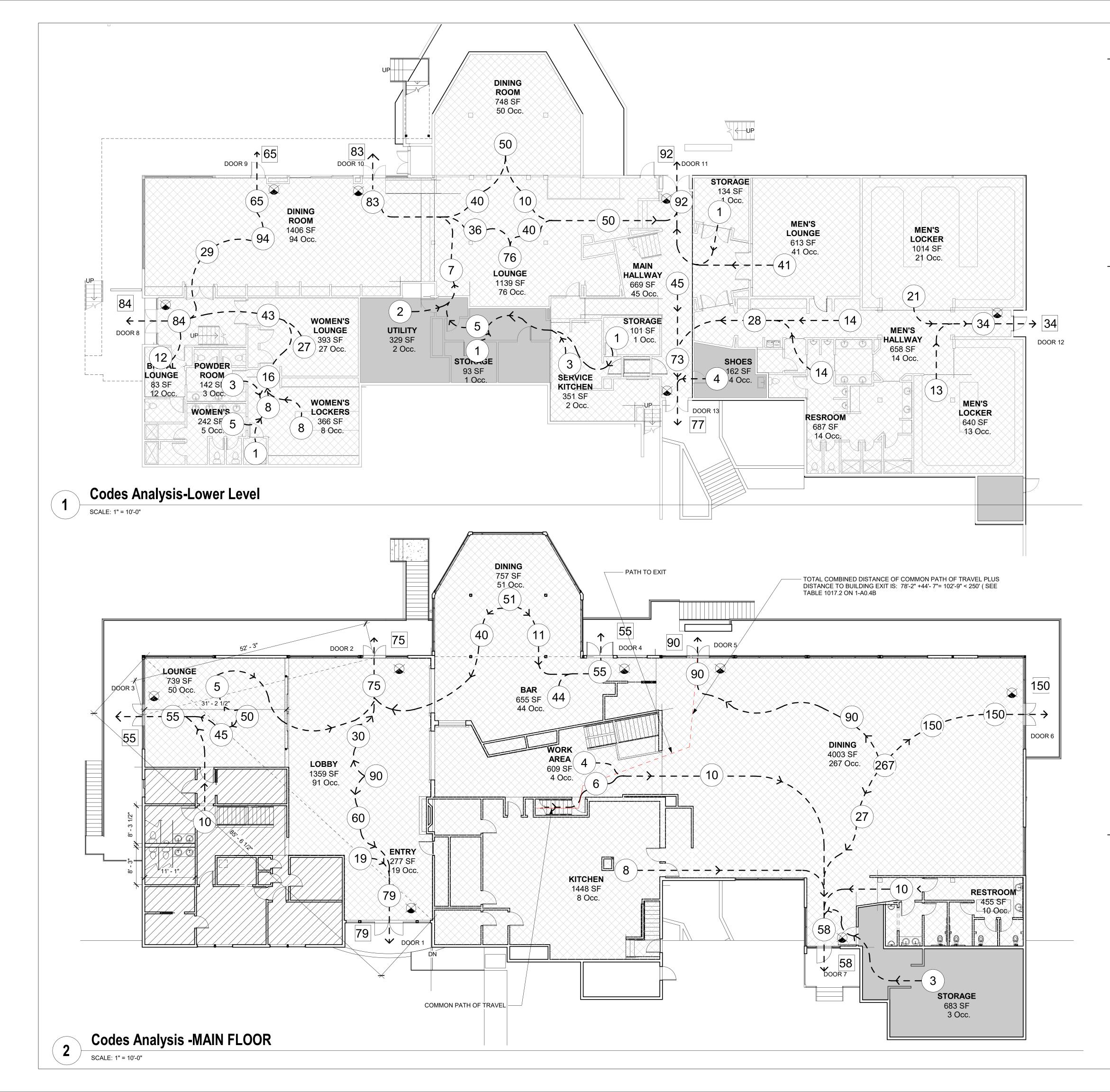
3 THESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS OF SERVICE, ARE OWNED BY THE ARCHITECT AND ARE FOR USE ON

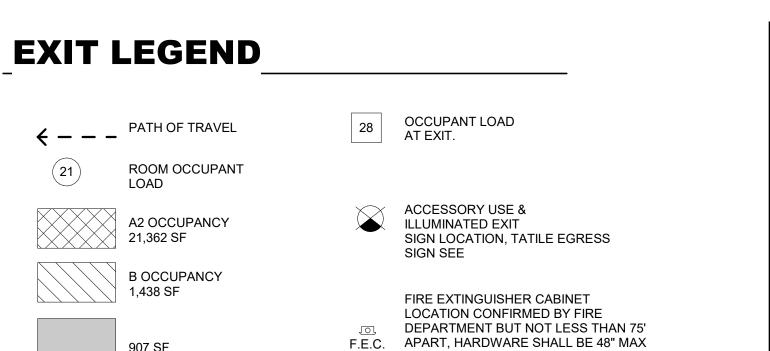
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APPROACH SHALL ADJOIN AND/OR OVERLAP AN ACCESSIBLE ROUTE.

C.FLUSH CONTROLS SHALL BE HAND OPERATED BY OSCILLATING HANDLE OR AUTOMATIC MECHANISM MOUNTED NO MORE THAN FORTY-FOUR INCHES (44") ABOVE THE FLOOR WITH A MAXIMUM FORCE OF FIVE POUNDS (5#).





APART, HARDWARE SHALL BE 48" MAX AFF, WITH A RATING OF NOT LESS THAN

2A. SEE DETAIL:

# **EXIT WIDTHS**

907 SF

EXIT #	OCCUPANT LOAD	EGRESS WIDTH REQ'D (IN INCHES)	EGRESS WIDTH PROVIDED
DOOR 1	79	x .2 = 15.8"	74"
DOOR 2	75	x .2 = 15.0"	60"
DOOR 3	55	x.2 = 11.0"	58"
DOOR 4	55	x.2 = 11.0"	70"
DOOR 5	90	x .2 = 18.0"	58"
DOOR 6	150	x .2 = 30.0"	58"
DOOR 7	58	x.2 = 11.6"	39"
DOOR 8	84	x .2 = 15.8"	60"
DOOR 9	65	x .2 = 13.0"	40"
DOOR 10	83	x.2 = 16.6"	60"
DOOR 11	92	x.2 = 18.4"	72"
DOOR 12	34	x.2 = 6.8"	36"
DOOR 13	73	x .2 = 14.6"	60"

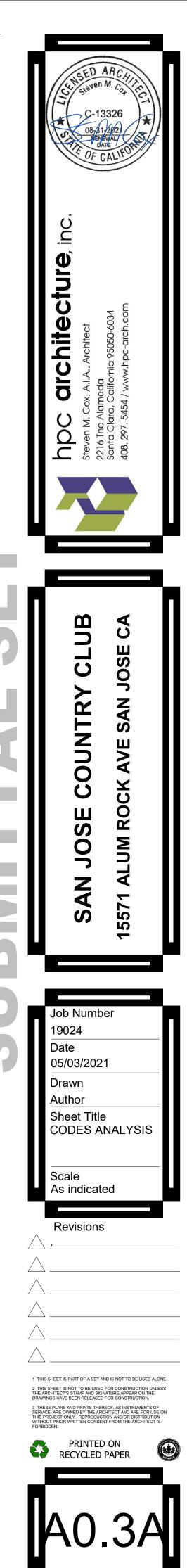
# **BUILDING HEIGHT and AREA CALS**

	EXISTING	
BLDG HEIGHT (STORIES)	2	
AREAS: LOWER LEVEL MAIN LEVEL MECH. LEVEL	12,044 13,659 1,732	
TOTAL AREA	27,435	
ALLOWABLE AREA NOTES PER TABLE 506, OCCUPAN CONSTRUCTION: A2 - 34,500 (2 STORIES) B - 54,000 (2 STORIES) S2 - 63,000 (3 STORIES)	•	
REQUIRED OCCUPANCY	SEPERATIONS:	

REQUIRED OCCUPANCY SEPERATIONS: A2-B - NONE A2-S2 - NONE B-S2 - NONE

# **EXITING NOTES**

- THIS BUILDING IS PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER THROUGHOUT PER SECTION 903.3.1.1. PER SECTION 1007.1.1, EXCEPTION 2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE OF THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED."
- DESIGNATES ILLUMINATED EXIT SIGN LOCATIONS PER SECTION 1013. PER 2 SECTION 1013.6.2 "THE FACE OF AN EXIT SIGN ILLUMINATED FROM AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT-CANDLES (54 lux).
- SIGN THAT INDICATES "NOT AN EXIT" PLACED AT DOOR 3
- TACTILE EGRESS SIGN, PER CBC 1013.4 SEE DETAIL: 4



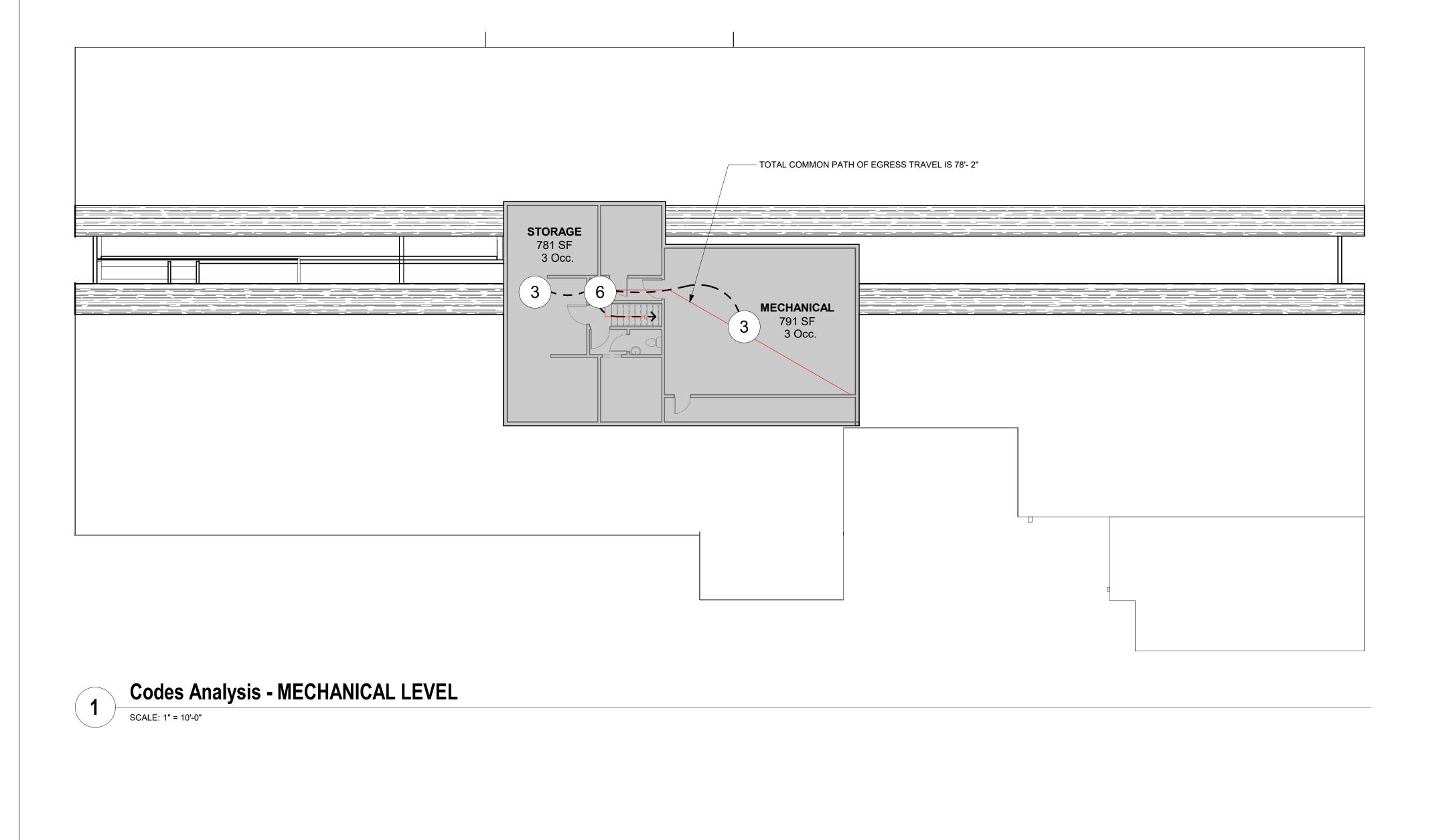
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## TABLE 1017.2

EXI	ACCESS TRAVEL DISTAN	NCE <sup>a</sup>
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)
A, E, F-1, M, R, S-1	200 <sup>e</sup>	250 <sup>b</sup>
R-2.1	Not Permitted	250 <sup>b</sup>
В	200	300 <sup>c</sup>
F-2, S-2, U	300	400 <sup>c</sup>
H-1	Not Permitted	75 <sup>d</sup>
H-2	Not Permitted	100 <sup>d</sup>
H-3	Not Permitted	150 <sup>d</sup>
H-4	Not Permitted	175 <sup>d</sup>
H-5	Not Permitted	200 <sup>c</sup>
I-2, I-2.1, I-3 <sup>f</sup>	Not Permitted	200 <sup>c</sup>
1-4	150	200 <sup>c</sup>
L	Not Permitted	200 <sup>c</sup>

OCCUPANCY	A	, E	I-4,	R-2.1	I-2,	I-2.1	ŀ	-3	R-3,	R-2, R-3.1,		-2, <sup>b</sup> , U		-1 <sup>g, h</sup> , S-1		L	н	I-1	н	-2	H-3,	, H-4	н	-5
	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS	s	NS
A, E	Ν	Ν	2	2	2	NP	2	NP	1	2	Ν	1	1	2	2	NP	NP	NP	3	4	2	3	2	NP
I-4, R-2.1	-	—	1 <sup>e</sup>	NP	2	NP	2	NP	1	NP	1	2	1	2	2	NP	NP	NP	4	NP	2	NP	2	NP
I-2, I-2.1	_	_	_	-	N	NP	2	NP	2	NP	2	NP	2	NP	2	NP	NP	NP	4	NP	2	NP	2	NP
I-3	_	_	_	—	-	—	Ν	NP	2	NP	2	2	2	2	2	NP	NP	NP	4	NP				
R-1, R-2, R-3, R-3.1, R-4	_	_	_	_	_	_	_	_	Ν	N	1 <sup>c</sup>	2 <sup>c</sup>	1	2	4	NP	NP	NP	3	NP	2	NP	2	NP
F-2, S-2 <sup>b</sup> , U	—	—	_	-	-	_	_	-	-	-	Ν	Ν	1	2	1	NP	NP	NP	3	4	2	3	2	NP
B, F-1, M, S-1	_	—	_	—	—	—	_	_	—	_	_	—	Ν	Ν	1	NP	NP	NP	2	3	1	2	1	NP
L	—	—	—	_	_	—	_	_	—	_					1	NP	NP	NP	2	NP				
H-1	_	—	—	_	_	_	_	_	—	_	—	-	_	—	—	_	Ν	NP	NP	NP	NP	NP	NP	NP
H-2	_	—	—	_	_	—	_	_	—	_	—	_	_	—	—	_	_	_	Ν	NP	1	NP	1	NP
H-3, H-4	_	—	_	-	-	_	_	-	_	-	_	-	_	—	_	_	1 <sup>d</sup>	NP	1	NP	1 <sup>d</sup>	NP	1	NP
H-5	_	—	—	_	_	—	_	_	—	_	_	_	_	_	_	_	_	_	Ν	NP	_	—	Ν	NP



**TABLE 508.4** REQUIRED SEPARATION OF OCCUPANCIES (HOURS)<sup>h</sup>

#### it access travel distance shall not exceed the values given in Table 1017.2. **TABLE 1017.2**

NS	
NP	
NP	
NP	
NP	
NP	
NP	
NP	
NP	

EXIT ACCESS TRAVEL DISTANCE <sup>a</sup>									
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)							
A, E, F-1, M, R, S-1	200 <sup>e</sup>	250 <sup>b</sup>							
R-2.1	Not Permitted	250 <sup>b</sup>							
В	200	300 <sup>c</sup>							
F-2, S-2, U	300	400 <sup>c</sup>							
H-1	Not Permitted	75 <sup>d</sup>							
H-2	Not Permitted	100 <sup>d</sup>							
H-3	Not Permitted	150 <sup>d</sup>							
H-4	Not Permitted	175 <sup>d</sup>							
H-5	Not Permitted	200 <sup>c</sup>							
I-2, I-2.1, I-3 <sup>f</sup>	Not Permitted	200 <sup>c</sup>							
1-4	150	200 <sup>c</sup>							
L	Not Permitted	200 <sup>c</sup>							

#### TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOA
	FACTOR <sup>a</sup>
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	20
Baggage claim	20 gross 300 gross
Baggage handling	100 gross
Concourse Waiting areas	15 gross
NUM CONTR <del> -</del> SAMMANNI (	
Assembly Gaming floors (keno, slots, etc.)	11 gross
Exhibit gallery and museum	30 net
Assembly with fixed seats	See Section 1004
Assembly without fixed seats	
Concentrated	7 net
(chairs only—not fixed)	5 net
Standing space	15 net
Unconcentrated (tables and chairs)	
Bowling centers, allow 5 persons for each lane	7 net
including 15 feet of runway, and for additional areas	00000000
Business areas Concentrated business use areas	150 gross See Section 1004
Courtrooms—other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	50 gross
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Group H-5 fabrication and	
manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Laboratory	50 net
Educational (K—12 <sup>th</sup> grade)	100 net
Laboratories, non-educational	200 gross
Laboratory suite <sup>b</sup>	
Library	50 net
Reading rooms Stack area	100 gross
	50 27222
Locker rooms	50 gross See Section
Mall buildings—covered and open	402.8.2
Mercantile	60 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	50
Rink and pool	50 gross 15 gross
Decks	10 91055
Stages and platforms	15 net
Warehouses	500 gross

 $\mathbf{m}$ C SЕ  $\mathbf{O}$ 0 SAN TR N ш A Ο CK C RO S П < Ó **LUN** 557 S 9024 Date 05/03/2021 Drawn Author Sheet Title CODES ANALYSIS 1'' = 10'-0'Revisions 1 THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. 2 THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLESS THE ARCHITECT'S STAMP AND SIGNATURE APPEAR ON THE DRAWINGS HAVE BEEN RELEASED FOR CONSTRUCTION. 3 THESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS OF SERVICE, ARE OWNED BY THE ARCHITECT AND ARE FOR USE ON THIS PROJECT ONLY. REPROLUCTION AND/OR DISTRIBUTION WITHOUT PRIOR WRITTEN CONSENT FROM THE ARCHITECT IS FORPIDDEN PRINTED ON RECYCLED PAPER 

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For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>. a. Floor area in square feet per occupant.

b. See Section 453.2.



# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

CHAPTER 3	X 🗆	5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF						
GREEN BUILDING		LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.			electrical supply.			
SECTION 301 GENERAL			additional	ocal utility infras	suitable to the loca structure design re	equirements, dire	ectly related to t	
		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	Implement	ation of Section	5.106.5.3, may ad	dversely mpact t	he constructor	
301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the		applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or						
application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).	TABLE 5.106.5.		I			
301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions		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	TOTAL NUMBER C		ACES NU	MBER OF REQ	URED SPACE	
of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within		permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures.		)-9		0		
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		Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural		)-25		1		
alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.		practices and be approved by the enforcing agency.		6-50		2		
A code section will be designated by a banner to indicate where the code section only applies to newly		Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures		1-75		4		
constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.		should be given during the initial design process for appropriate integration into site development.		-100		5		
301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:				I-150 I-200		10		
		5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State					atal1	
<b>Note:</b> On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving		Architect pursuant to Section 105, comply with Section 5.106.4.2		ID OVER		6% of t		
plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 <i>et seq.</i> for definitions, types of commercial real property affected, effective dates, circumstances necessitating		<b>5.106.4.1 Bicycle parking, [BSC-CG]</b> Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.	1. Calculation for sp	aces shall be ro	unded up to the n	earest whole nun	nber.	
replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.			5.106.5.3.4 [N] Iden reserved overcurrer	t protective dev	ce space(s) for fu	ture EV charging	as "EV CAPA	2
<b>301.3.2 Waste Diversion.</b> The requirements of Section 5.408 shall be required for additions and		<b>5.106.4.1.1 Short-term bicycle parking.</b> If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors'	termInation location	sha <b>l</b> be perma	nently and visibly	marked as "EV C	CAPABLE".	
alterations whenever a permit is required for work.		entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-blke capacity rack.	5.106.5.3.5 [N] Futu	re charging spa	ces qualify as des	signated parking	as described in	1
301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)		Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.	Designated parking	for clean air veh	ces.			
301.5 HEALTH FACILITIES. (see GBSC)		<b>5.106.4.1.2 Long-term blcycle parking.</b> For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking	5.106.8 LIGHT POLLUTION RE		Outdoor labtles -	systeme chall be	deslaned and	
SECTION 302 MIXED OCCUPANCY BUILDINGS		tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.	with the following:	Section. [N].I	Satubor Inghting s	ysterns stidli De	acaigned and I	
302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building		5,106,4,1,3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces,	1. The minimum requirem	ents In the Callfo	orn <b>l</b> a Energy Code	e for Lighting Zon	es 0-4 as def <b>i</b> n	
shall comply with the specific green building measures applicable to each specific occupancy.		provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a	Section 10-114 of the C 2. Backlight (B) ratings as	alifornia Adminis	strative Code; and			
SECTION 303 PHASED PROJECTS		minimum of one bicycle parking facility.	3. Uplight and Glare rating Chapter 8) and					
<b>303.1 PHASED PROJECTS.</b> For shell buildings and others constructed for future tenant improvements,		<b>5.106.4.1.4</b> For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.	<ol><li>Allowable BUG ratings</li></ol>	not exceeding th	ose shown in Tab	le 5.106.8, [N] or	Comply with a	
only those code measures relevant to the building components and systems considered to be new		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	lawfully enacted pursua	nt to Section 10'	1.7, whichever is n	nore stringent.		
construction (or newly constructed) shall apply.		be convenient from the street and shall meet one of the following:	Exceptions: [N]					
<b>303.1.1 Initial Tenant Improvements.</b> 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		1. Covered, lockable enclosures with permanently anchored racks for bicycles;	<ol> <li>Luminaires that of 2. Emergency light</li> </ol>		lons In Section 14	0.7 of the Callfor	n a Energy Coo	
Section 301.3 non-residential additions and alterations.		<ol> <li>Lockable bicycle rooms with permanently anchored racks, or</li> <li>Lockable, permanently anchored bicycle lockers.</li> </ol>	<ol><li>Building facade</li></ol>	meeting the requ	irements in Table	140.7-B of the C	alifornia Energ	
ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development		Note: Additional information on recommended bicycle accommodations may be obtained from	<ol> <li>Custom lighting Alternate materia</li> </ol>	eatures as allow als, designs and	ed by the local er methods of constr	ruction.	as permitted by	
BSC California Building Standards Commission		Sacramento Area Bicycle Advocates.	Note: [N]					
DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development		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	<ol> <li>See also Californ requirements for</li> </ol>			tion 1205.6 for co	ellege campus	
LR Low Rise HR High Rise			2. Refer to Chapter A-1, Callfornia Ei	8 (Compliance F	orms, Worksheet	s and Reference	Material) for IE	
AA Additions and Alterations		<b>5.106.4.2.1 Student blcycle parking.</b> Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.	3. Refer to the Calif				and alterations.	
		<b>5.106.4.2.2 Staff bicycle parking.</b> Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities						
CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES		shall be convenient from the street or staff parking area and shall meet one of the following:	TABLE 5.106.8 [N] M/	AXIMUM AL	LOWABLE B	ACKLIGHT,	UPLIGHT	
NONRESIDENTIAL MANDATORT MEASURES		1. Covered, lockable enclosures with permanently anchored racks for bicycles;	AND GLARE (BUG) RA	TINGS 1,2				
DIVISION 5.1 PLANNING AND DESIGN		<ol> <li>Lockable bicycle rooms with permanently anchored racks, or</li> <li>Lockable, permanently anchored bicycle lockers.</li> </ol>	ALLOWABLE RATING	LIGHTING ZONE	LIGHTING	LIGHTING	LIGHTING	
SECTION 5.101 GENERAL	x 🗆	5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations		LZO	ZONE LZ1	ZONE LZ2	ZONE LZ	
5.101.1 SCOPE The provisions of this chapter outline planning, design and development methods that include environmentally		that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:	MAXIMUM ALLOWABLE					
responsible site selection, building design, building siting and development to protect, restore and enhance the			BACKLIGHT RATING 3					
environmental quality of the site and respect the integrity of adjacent properties.		TABLE 5.106.5.2 - PARKING	mounting heights (MH) from	N/A	No Limit	No Limit	No Limit	
SECTION 5.102 DEFINITIONS		TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES	property line					
The following terms are defined in Chapter 2 (and are included here for reference)		0-9 0	Luminaire back hemisphere is 1-2 MH from property Ine	N/A	B2	B3	B4	
CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not		10-25 1	Luminaire back hemisphere is					
numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.		25-50 3	0.5-1 MH from property line	N/A	B1	B2	B3	
LOW-EMITTING AND FUEL EFFICIENT VEHICLES.		51-75 6	Luminaire back hemisphere is less than 0.5 MH from property	N/A	во	BO	R1	
Eligible vehicles are limited to the following:		76-100 8						
1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission		101-150 11	MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.		151-200 16	For area lighting 4	N/A	110	110	U0	,
<ol> <li>High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.</li> </ol>		201 AND OVER AT LEAST 8% OF TOTAL	For all other outdoor	N/A	UO	UO	00	
NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle"		5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following	lighting, including decorative	N/A	U1	U2	U3	
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.		characters such that the lower edge of the last word aligns with the end of the stall striping and is	Iuminaires MAXIMUM ALLOWABLE					
		visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV	GLARE RATING ₅ (G)					
TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.		Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.	Luminaire greater than 2 MH	N/A	G1	G2	G3	
VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor,			from property line					
designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.	x 🗆	<b>5.106.5.3 Electric vehicle (EV) charging. [N]</b> Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE).	Luminalre front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	
Note: Source: Vehicle Code, Division 1, Section 668		When EVSE(s) Is/are Installed, It shall be In accordance with the California Building Code, the	Luminaire front hemisphere is	N/A	G0	G0	G1	
		California Electrical Code and as follows:	0.5-1 MH from property line					
ZEV. Any vehicle certified to zero-emission standards.		5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction	Luminaire back hemisphere is less than 0.5 MH from property	N/A	G0	G0	G0	
SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE		and shall be installed in accordance with the California Electrical Code. Construction plans and	Ine					
OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction		specifications shall include, but are not limited to, the following:	<ol> <li>IESNA Lighting Zones 0 and California Energy Code and Cha</li> </ol>				nned in the	
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:		<ol> <li>The type and location of the EVSE.</li> <li>A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.</li> </ol>	2. For property lines that abut p	, bublic walkways,	bikeways, plazas	s and parking lots		
5,106,1,1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control		3. The raceway shall not be less than trade size 1".	line may be considered to be 5 compliance with this section. For	feet beyond the	actual property lin	ne for purpose of	determining	
ordinance.		<ol> <li>The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed</li> </ol>	corridors, the property line may	be considered to	o be the centerline	e of the public roa		
<b>5.106.1.2 Best Management Practices (BMPs).</b> Prevent the loss of soll through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.		suitable cabinet, box, enclosure or equivalent. 5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum	transit corridor for the purpose	0	•		a harl	
		40-ampere dedicated branch circuit for the future installation of the EVSE.	<ol> <li>If the nearest property line is hemisphere of the luminaire dis</li> </ol>					
<ol> <li>Soll loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:</li> </ol>		5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are	4. General lighting luminaires in	areas such as o	outdoor parking, s	ales or storage lo	ots sha <b>l</b> meet	
<ul> <li>a. Scheduling construction activity during dry weather, when possible.</li> <li>b. Preservation of natural features, vegetation, soll, and buffers around surface waters.</li> </ul>		required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the <i>California Electrical Code</i> . Construction plans and	these reduced ratings. Decorati "all other outdoor lighting".	ve lumInalres lo	cated in these are	as sha <b>l</b> meet U-v	value Imits for	
<ul> <li>c. Drainage swales or lined ditches to control stormwater flow.</li> <li>d. Mulching or hydroseeding to stabilize disturbed soils.</li> </ul>		specifications shall include, but are not limited to, the following:	5. If the nearest property line is					
<ul> <li>e. Erosion control to protect slopes.</li> <li>f. Protection of storm drain inlets (gravel bags or catch basin inserts).</li> </ul>		1. The type and location of the EVSE.	hemisphere of the luminaire dis					
g. Perimeter sediment control (perimeter silt fence, fiber rolls).		<ol> <li>The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and</li> </ol>						
<ul> <li>h. Sediment trap or sediment basin to retain sediment on site.</li> <li>I. Stabilized construction exits.</li> </ul>		Into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.						
<ul> <li>j. Wind erosion control.</li> <li>k. Other soil loss BMPs acceptable to the enforcing agency.</li> </ul>		<ul> <li>3. Plan design shall be based upon 40-ampere minimum branch circuits.</li> <li>4. Electrical calculations shall substantiate the design of the electrical system, to include the</li> </ul>	5.106.10 GRADING AND PAVIN					
<ol> <li>Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but</li> </ol>		rating of equipment and any on-site distribution transformers and have sufficient capacity	manage all surface water flows to Include, but are not limited to, the		n entering bu <b>i</b> lding	gs. Examples of i	methods to mai	
are not limited to, the following: a. Dewatering activities.		to simultaneously charge all required EVs at its full rated amperage. 5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the	1. Swales.	-				
<ul> <li>Material handling and waste management.</li> </ul>		required number of dedicated branch circuit(s) for the future installation of the EVSE.	2. Water collection and dis 3. French drains.	sposal systems.				
<ul> <li>Building materials stockpile management.</li> <li>Management of washout areas (concrete, paints, stucco, etc.).</li> </ul>		5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if	<ol><li>Water retention gardens</li></ol>		oo wataa aaaa t	m hulldhara ar i	old le energie	
 <ul> <li>Control of vehicle/equipment fueling to contractor's staging area.</li> <li>f. Vehicle and equipment cleaning performed off site.</li> </ul>		single or multiple charging space requirements apply for the future installation of EVSE.	5. Other water measures v recharge.		,	0	aiu in groundwa	4
				-unarations not a	worma the drained			
<ul><li>g Spll prevention and control.</li><li>h. Other housekeeping BMPs acceptable to the enforcing agency.</li></ul>		Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:	Exception: Additions and	allerations not a	tering the drainag	je paul		

N/A RESPON PARTY

NOT APPLICABLE RESPONSIBLE PARTY (Ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5 106 12 3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

**Exceptions:** The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5 106 11 2 2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation. 5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltalc shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5 106 11 2.2 in Appendix A5, are not included in the total area calculation.

#### DIVISION 5.2 ENERGY EFFICIENCY

#### SECTION 5.201 GENERAL

volume or cycle duration can be fixed or adjustable.

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

#### DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference) EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to

reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

not including exterior areas such as stairs, covered walkways, patios and decks. METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade,

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2,7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction

**RECYCLED WATER.** Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied

Ordinance (MWELO). SECTION 5.303 INDOOR WATER USE

**5.303.1 METERS.** Separate submeters or metering devices shall be installed for the uses described in Sections 503 1 1 and 503 1 2

water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

- 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:
- 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for Individual building tenants are unfeasible, for water supplied to the
- following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

**5.303.1.2 Excess consumption.** A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

#### 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. 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 Note: The effective flush volume of dual flush tollets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

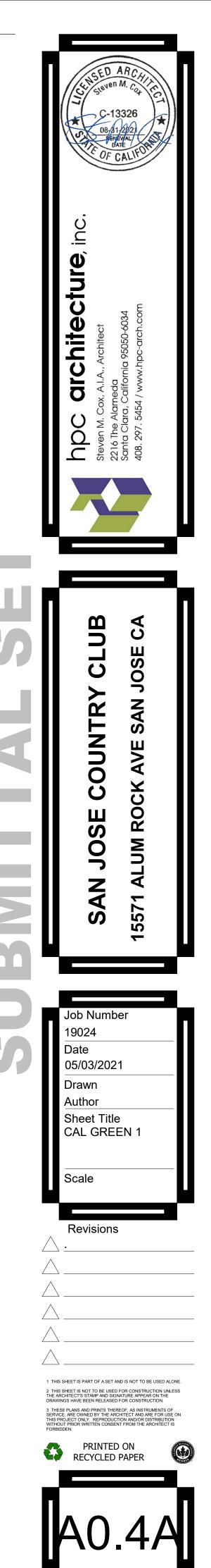
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

#### 5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads [BSC-CG]

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psl. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is 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 exceed 1.8 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. Note: A hand-held shower shall be considered a showerhead.



END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement

N/A RESPON. PARTY		Y N/A RESPON. PARTY		Y N/A RESPO		Y N
PARTY	5.303.3.4 Faucets and fountains. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not	PARTY	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.		5.410.2 COMMISSIONING. [N] 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	
	more than 0.5 gallons per minute at 60 psi. <b>5.303.3.4.2 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate,		5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.		on projects of comparable size and complexity. For Loccupancies that are not regulated by OSHPD or for Loccupancies and Loccupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.	
	but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8		5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:		<b>Note:</b> 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, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements	
	gallons per mInute/20 [rlm space (Inches) at 60 psl]. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.		<b>5.407.2.2.1 Exterior door protection.</b> 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:		Commissioning requirements shall include: 1. Owner's or Owner representative's project requirements. 2. Basis of design.	
	<b>5,303,3,4,5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve		<ol> <li>An Installed awning at least 4 feet in depth.</li> <li>The door is protected by a roof overhang at least 4 feet in depth.</li> <li>The door is recessed at least 4 feet.</li> <li>Other methods which provide equivalent protection.</li> </ol>		<ol> <li>Commissioning measures shown in the construction documents.</li> <li>Commissioning plan.</li> <li>Functional performance testing.</li> <li>Documentation and training.</li> </ol>	
	reduction.		5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.		7. Commissioning report.	
×	<ul> <li>5.303.4 COMMERCIAL KITCHEN EQUIPMENT.</li> <li>5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.</li> <li>Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.</li> </ul>	IX 🗆 📃	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 meet a local construction and demolition waste management ordinance, whichever is more stringent.		<ol> <li>Unconditioned warehouses of any size.</li> <li>Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.</li> <li>Tenant Improvements less than 10,000 square feet as described in Section 303.1.1.</li> <li>Open parking garages of any size, or open parking garage areas, of any size, within a structure.</li> </ol>	
	<b>5.303.5 AREAS OF ADDITION OR ALTERATION.</b> For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.		<b>5.408.1.1 Construction waste management plan.</b> Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:		Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.	
	<b>5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.</b> Plumbing fixtures and fittings shall be installed In accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.		<ol> <li>Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.</li> <li>Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).</li> <li>Identifies diversion facilities where construction and demolition waste material collected will be taken.</li> <li>Specifies that the amount of construction and demolition waste materials diverted shall be calculated</li> </ol>		<ol> <li>IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.</li> </ol>	
	SECTION 5.304 OUTDOOR WATER USE 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water		by weight or volume, but not by both. 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		<ol> <li>Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.</li> </ol>	
	Efficient Landscape Ordinance (MWELO), whichever is more stringent. Notes: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.		complies with this section. Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.		<ul> <li>5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:         <ol> <li>Environmental and sustainability goals.</li> <li>Building sustainability goals.</li> </ol> </li> </ul>	
	<ol> <li>MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.</li> <li>5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges,</li> </ol>		Exceptions to Sections 5.408.1.1 and 5.408.1.2: <ol> <li>Excavated soll and land-clearing debris.</li> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle</li> </ol>		<ol> <li>Building sustainable goals.</li> <li>Indoor environmental quality requirements.</li> <li>Project program, including facility functions and hours of operation, and need for after hours operation.</li> <li>Equipment and systems expectations.</li> </ol>	
	landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.		<ul> <li>facilities capable of compliance with this item do not exist.</li> <li>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ul>		<ol> <li>Equipment and systems expectations.</li> <li>Building occupant and operation and maintenance (O&amp;M) personnel expectations.</li> <li>5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall</li> </ol>	
	Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.		<b>5.408.1.3 Waste stream reduction alternative.</b> 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 as approved by the enforcing agency.		<ol> <li>Renewable energy systems,</li> <li>Landscape irrigation systems.</li> </ol>	
	<ul> <li>5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.</li> <li>5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate</li> </ul>		<b>5.408.1.4 Documentation.</b> 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.		<ol> <li>Water reuse system.</li> <li>5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:</li> </ol>	
	landscape area equal to or greater than 1,200 square feet.		Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance		<ol> <li>General project Information.</li> <li>Commissioning goals.</li> <li>Systems to be commissioned. Plans to test systems and components shall include:         <ul> <li>An explanation of the original design Intent.</li> </ul> </li> </ol>	
	DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		<ul> <li>with the waste management plan.</li> <li>2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).</li> </ul>		<ul> <li>b. Equipment and systems to be tested, including the extent of tests.</li> <li>c. Functions to be tested.</li> <li>d. Conditions under which the test shall be performed.</li> <li>e. Measurable criteria for acceptable performance.</li> </ul>	
	<b>SECTION 5.401 GENERAL</b> <b>5.401.1 SCOPE.</b> The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior molsture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.		<b>5.408.2 UNIVERSAL WASTE.</b> [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 items 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 Waste materials shall be included in the construction documents.		<ol> <li>Commissioning team information.</li> <li>Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.</li> <li>5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct</li> </ol>	
	<b>SECTION 5.402 DEFINITIONS</b> 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)		Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated		Installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.	
	ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals,		vegetation and solls 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.  Exception: Reuse, either on or off-site, of vegetation or soll contaminated by disease or pest infestation.		<b>5.410.2.5 Documentation and training.</b> [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in <i>California Code of Regulations</i> (CCR), Title 8, Section 5142, and other related regulations.	
	BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed,		Notes: 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural		5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:	
	<b>ORGANIC WASTE.</b> Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.		<ul> <li>Commissioner and follow its direction for recycling or disposal of the material.</li> <li>2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)</li> </ul>		<ol> <li>Site information, including facility description, history and current requirements.</li> <li>Site contact Information.</li> <li>Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.</li> </ol>	
	TEST. A procedure to determine quantitative performance of a system or equipment	<u> </u>	<b>SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS</b> <b>5.410.1 RECYCLING BY OCCUPANTS.</b> 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		<ol> <li>Major systems.</li> <li>Site equipment inventory and maintenance notes.</li> <li>A copy of verifications required by the enforcing agency or this code.</li> <li>Other resources and documentation, if applicable.</li> </ol>	
			ordInance, If more restrictive. <b>Exception:</b> 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.		<b>5.410.2.5.2 Systems operations training. [N]</b> A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:	
			<ul> <li>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.</li> <li>Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space</li> </ul>		<ol> <li>System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).</li> <li>Review and demonstration of servicing/preventive maintenance.</li> <li>Review of the information in the Systems Manual.</li> </ol>	
			floor area. <b>5.410.1.2 Sample ordinance</b> . Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the <i>Public Resources Code</i> . Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).		<ol> <li>Review of the record drawings on the system/equipment.</li> <li>5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or</li> </ol>	
			Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the	X!	<ul> <li>representative.</li> <li>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</li> </ul>	
					alteration subject to Section 303.1. 5.410.4.2 (Reserved)	
					<b>Note:</b> 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 system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.	
					<b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:	
					<ol> <li>Renewable energy systems.</li> <li>Landscape Irrigation systems.</li> <li>Water reuse systems.</li> </ol>	
					<b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.	
					<b>5.410.4.3.1 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Alr Balance Council National Standards or as approved by the enforcing agency.	[

	Y	• YES		C-13326
ement)	N/A RESPON, PARTY	NOT APPLICABLE RESPONSIBLE PARTY (Ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	1	OF CALIFOIT
5.410.4.4 Reporting. After complete signed by the individual responsible		ncing, provide a final report of testing		
	instructions and copies of guarar	e bullding owner or representative with nties/warranties for each system. O & M e 8, Section 5142, and other related		<b>a</b> inc
-	reports. Include a copy of all Insp	pection verifications and reports required		, tur
SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this cha	NMENTAL QUALIT apter shall outline means of reduce e comfort and well-being of a built			<b>hpc architecture</b> , Steven M. Cox, A.I.A., Architect 2216 The Alameda Santa Clara, California 95050-6034 408. 297. 5454 / www.hpc-arch.com
SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following term	s are defined in Chapter 2 (and a	re included here for reference)		A.I.A., J A.I.A., J da www.h
ARTERIAL HIGHWAY. A general term der A-WEIGHTED SOUND LEVEL (dBA), The using the internationally standardized A-we	e sound pressure level in decibels	as measured on a sound level meter		DCC M. Cox, J he Alame Clara, Ca 7, 5454 / J
adjustments have been made. 1 BTU/HOUR. British thermal units per hou of water one degree Fahrenhelt per hour, a	ur, also referred to as Btu. The an	nount of heat required to raise one pound fer rate. A ton of refrigeration is 12,000 Btu,		hpo Steven M. 2216 The <i>J</i> Santa Cla 408. 297. 5
	EL (CNEL). A metric similar to the d to the equivalent continuous so			
or finger–jointed lumber, all as specified in	osite wood products Include hardwucts" does not include hardboard, ted strand board, glued laminated Callfornia Code of Regulations (	structural plywood, structural timber, timber, prefabricated wood Hoists		
Note: See CCR, Title 17, Section 93120.1 DAY-NIGHT AVERAGE SOUND LEVEL (I 24-bour period with a 10 dB adjustment ad	Ldn). The A-weighted equivalent			
24-hour period with a 10 dB adjustment ad DECIBEL (db). A measure on a logarlthmle sound power, sound intensity) with respect	c scale of the magnitude of a part			<u>n</u> ≼
ELECTRIC VEHICLE (EV). An automotive trucks, vans, neighborhood electric vehicle that draws current from a rechargeable sto Plug-In hybrid electric vehicles (PHEV) are off-road, self-propoelled electric vehicles, s support equipment, tractors, boats, and the	-type vehicle for on-road use, suc es, electric motorcycles, and the li prage battery, fuel cell, photovolta e considered electric vehicles. For such as industrial trucks, hoists, li e like, are not included.	ke, primarily powered by an electric motor ic array, or other source of electric current purposes of the <i>California Electrical Code</i> , fts, transports, golf carts, airline ground		TRY CLU
ELECTRIC VEHICLE CHARGING STATIC ELECTRIC VEHICLE SUPPLY EQUIPMEN equipment grounding conductors and the e power outlets, or apparatus installed speci and the electric vehicle.	NT (EVSE). The conductors, inclue electric vehicle connectors, attach	uding the ungrounded, grounded, and ment plugs, and all other fittings, devices,		N N
ENERGY EQUIVALENT (NOISE) LEVEL ( the fluctuating noise level integrated over t		which would have the same energy as		C A C A
EXPRESSWAY. An arterial highway for the not be divided or have grade separations a		al control of access, but which may or may		Зоо С
FREEWAY. A divided arterial highway with	-	rade separations at intersections. ne mass-based unit of a given greenhouse		SO S
gas relative to an equivalent unit of carbon compound with a GWP of one.				ALUM
GLOBAL WARMING POTENTIAL VALUE ntergovernmental Panel on Climate Chang ts Fourth Assessment A-3 Report (AR4) (I Table 2.14., the AR4 GWP values are four	ge (IPCC) in either its Second As IPCC, 2007). The SAR GWP valu	sessment Report (SAR) (IPCC, 1995), or es are found in column "SAR (100-yr)" of		<b>5571</b> /
HIGH-GWP REFRIGERANT. A compound hdrochlorofluorocarbon, a hydrofluorocarbo GWP value equal to or greater than 150, o Federal Regulations, Part 82, sec.82.3 (as	on, a perfluorocarbon, or any com r (B) any ozone depleting substar	pound or blend of compounds, with a		÷
LONG RADIUS ELBOW. Pipe fitting instal with a radius 1.5 times the pipe diameter.	led between two lengths of plpe o	or tubing to allow a change of direction,		
LOW-GWP REFRIGERANT. A compound 150, and (B) Is not an ozone depleting sub- sec.82.3 (as amended March 10, 2009).	used as a heat transfer fluld or ga stance as defined in Title 40 of th	as that: (A) has a GWP value less than e Code of Federal Regulations, Part 82,		Job Number 19024
MERV. Filter minimum efficiency reporting MAXIMUM INCREMENTAL REACTIVITY compound to the "Base REactive Organic	(MIR). The maximum change in v	veight of ozone formed by adding a	<b>U</b>	Date 05/03/2021
hundreths of a gram (g O <sup>3</sup> /g ROC). PRODUCT-WEIGHTED MIR (PWMIR). The article. The PWMIR is the total product rea product (excluding container and packaging	activity expressed to hundredths o			Drawn Author Sheet Title
PSIG. Pounds per square inch, guage. REACTIVE ORGANIC COMPOUND (ROC ozone formation in the troposphere.	C). Any compound that has the po	otent <b>i</b> al, once emitted, to contribute to		CAL GREEN 2
SCHRADER ACCESS VALVES. Access fl	-			Scale
SHORT RADIUS ELBOW. Pipe fitting insta with a radius 1.0 times the pipe diameter.				Revisions
SUPERMARKET. For the purposes of Sec or more conditioned area, and that utilizes to remote compressor units or condensing	either refrigerated display cases, units.	or walk-in coolers or freezers connected		· · · · · · · · · · · · · · · · · · ·
VOC. A volatile organic compound broadly vapor pressures greater than 0.1 millimete hydrogen and may contain oxygen, nitroge	rs of mercury at room temperatur	e. These compounds typically contain		<u>\</u>
Note: Where specific regulations are cited included in that specific regulation is the or				
SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct woodstove or pellet stove, and refer to rest	t-vent sealed-combustion gas or s Idential requirements in the Califo	ornla Energy Code, Title 24, Part 6,		<u>\</u>
Subchapter 7, Section 150. Woodstoves, p 5.503.1.1 Woodstoves. Woodstove Standards (NSPS) emission limits a	pellet stoves and fireplaces shall o es and pellet stoves shall comply		2	THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLESS
to meet the emission limits. SECTION 5.504 POLLUTANT	CONTROL		TH DF 3 SE TH	IE ARCHITECT'S STAMP AND SIGNATURE APPEAR ON THE AWINGS HAVE BEEN RELEASED FOR CONSTRUCTION. THESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS OF RVICE, ARE OWNED BY THE ARCHITECT AND ARE FOR USE ON IIS PROJECT ONLY. REPRODUCTION AND/OR DISTRIBUTION
5.504.1 TEMPORARY VENTILATION. The necessary to condition the building or area material and equipment installation. If the Minimum Efficiency Reporting Value (MER 30% based on ASHRAE 52.1-1992 Replace	he permanent HVAC system shall s of addition or alteration within the HVAC system Is used during con RV) of 8, based on ASHRAE 52.2- ce all filters immediately prior to c	he required temperature range for struction, use return air filters with a 1999, or an average efficiency of	w	PRINTED ON RECYCLED PAPER
occupled during alteration, at the conclusions of the conclusions of the conclusions and the conclusions and the conclusions and the conclusions and the conclusions are conclusions as the conclusion of the conclusions are conclusions as the conclusion of the conclusions are conclusions	on of construction. protection of mechanical equip	ment during construction. At the time of		
rough installation and during storage on the equipment, all duct and other related air di- sheetmetal or other methods acceptable to may enter the system.	stribution component openings sh			

R ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

AU.4B



# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET

,	5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish material 5.504.4.6.	s shall comply with Sections	5.504.4.1 through	TABLE 5.504
	5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealar the regularments of the following standards.	ts, and caulks used on the pr	oject shall meet	GRAMS OF VOC PE
	the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive prime comply with local or regional air pollution control or air qu	rs, sealants, sealant primers a	nd caulks shall	
	applicable, or SCAQMD Rule 1168 VOC limits, as shown	In Tables 5.504.4.1 and 5.50	.4.2. Such	FLAT COATINGS
	products also shall comply with the Rule 1168 prohibition (chloroform, ethylene dichloride, methylene chloride, pero	on the use of certain toxic con horoethylene and trichloroeth	npounds ylene), except for	NONFLAT COAT
	aerosol products as specified in subsection 2, below.			NONFLAT HIGH
	<ol><li>Aerosol adhesives, and smaller unit sizes of adhesive units of product, less packaging, which do not weigh more</li></ol>			SPECIALTY CO
	than 16 fluld ounces) shall comply with statewide VOC st prohibitions on use of certain toxic compounds, of <i>Califorr</i>	andards and other requirement	ts, Including	ALUMINUM RO
	with Section 94507.		rr, commencing	BASEMENT SPE
				BITUMINOUS R
	TABLE 5.504.4.1 - ADHESIVE VOC LIM	IT	7	BITUMINOUS R
			_	BOND BREAKE
	Less Water and Less Exempt Compounds In Grams p		-	CONCRETE CU
		50	_	CONCRETE/MA
	INDOOR CARPET ADHESIVES	50		DRIVEWAY SEA
	OUTDOOR CARPET ADHESIVES	150		FAUX FINISHING
	WOOD FLOORING ADHESIVES	100		
		60		
		50		FLOOR COATIN
		65		FORM-RELEASE
	CERAMIC TILE ADHESIVES	50	-	GRAPHIC ARTS
	DRYWALL & PANEL ADHESIVES	50	-	HIGH-TEMPERA
	COVE BASE ADHESIVES	50	-	
	COVE BASE ADHESIVES	70	-	
		100	-	
		250	-	
	SINGLE-PLY ROOF MEMBRANE ADHESIVES	50	-	
	OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	-	
	SPECIALTY APPLICATIONS PVC WELDING	510	-	PRETREATMEN PRIMERS, SEAL
	CPVC WELDING	490	-	
	CPVC WELDING ABS WELDING	325	-	REACTIVE PEN
	PLASTIC CEMENT WELDING	250		
	ADHESIVE PRIMER FOR PLASTIC	550		
		80		RUST PREVENT
	SPECIAL PURPOSE CONTACT ADHESIVE	250		SHELLACS:
	STRUCTURAL WOOD MEMBER ADHESIVE	140		CLEAR
ĺ	TOP & TRIM ADHESIVE	250		
	SUBSTRATE SPECIFIC APPLICATIONS	200		SPECIALTY PR
	METAL TO METAL	30	-	STAINS
	PLASTIC FOAMS	50	-	STONE CONSO
	POROUS MATERIAL (EXCEPT WOOD)	50	-	SWIMMING POO
	WOOD	30		TRAFFIC MARK
ĺ	FIBERGLASS	80		TUB & TILE REF
	TIBLINGLAGS			WATERPROOF
				WOOD COATIN
	1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR THE ADHESIVE WITH THE HIGHEST VOC CONTEI		,	WOOD PRESER
				ZINC-RICH PRI
	2. FOR ADDITIONAL INFORMATION REGARDING	METHODS TO MEASURE		1. GRAMS OF VOC
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S			2. THE SPECIFIED THE TABLE.
				3. VALUES IN THIS
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168,			 ARCHITECTURAL
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168,			FROM THE AIR RE
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168,	EE SOUTH COAST A <b>I</b> R	7	
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF	EE SOUTH COAST A <b>I</b> R		<b>5,504,4,3</b> , the enforce
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF	EE SOUTH COAST A <b>I</b> R		<b>5.504.4.3</b> , the enforc 1.
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF TABLE 5.504.4.2 - SEALANT VOC LIMI Less Water and Less Exempt Compounds in Grams p	EE SOUTH COAST A <b>I</b> R T er Liter		FROM THE AIR RE <b>5.504.4.3.</b> the enforc 1. 2. <b>5.504.4.4 Carpe</b>
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF TABLE 5.504.4.2 - SEALANT VOC LIMI Less Water and Less Exempt Compounds in Grams p SEALANTS	EE SOUTH COAST AIR T er Liter CURRENT VOC LIMIT		<b>5,504,4,3,</b> the enforc 1. 2. <b>5,504,4,4 Carpe</b>
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF TABLE 5.504.4.2 - SEALANT VOC LIMI Less Water and Less Exempt Compounds in Grams p SEALANTS ARCHITECTURAL	EE SOUTH COAST AIR T er Liter CURRENT VOC LIMIT 250		<b>5.504.4.3</b> , the enforc 1. 2. <b>5.504.4.4 Carpe</b> product requiren 1. Carpe
	THE VOC CONTENT SPECIFIED IN THIS TABLE, S QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF TABLE 5.504.4.2 - SEALANT VOC LIMI Less Water and Less Exempt Compounds in Grams p SEALANTS ARCHITECTURAL MARINE DECK	EE SOUTH COAST AIR T er Liter CURRENT VOC LIMIT 250 760		5,504,4,3, the enforc 1. 2. 5,504,4,4 Carpe product requiren 1. Carpe 2. Comp
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VOC CONTENT	LIMITS FOR	ARCHITECTURAL

CONTING CATEGORY	
	CURRENT VOC LIMIT
	50
	100
AT HIGH GLOSS COATINGS	150
	400
	400
	400
	50
	350
	350
RETE/MASONRY SEALERS	100
WAY SEALERS	50
	150
	350
	350
	100
RELEASE COMPOUNDS	250
IC ARTS COATINGS (SIGN PAINTS)	500
	420
TRIAL MAINTENANCE COATINGS	250
	120
	450
	100
	500
	250
	420
RS, SEALERS, & UNDERCOATERS	100
	350
	250
	50
	250
ACS:	
	730
JE	550
ALTY PRIMERS, SEALERS & UNDERCOATERS	100
3	250
CONSOLIDANTS	450
IING POOL COATINGS	340
IC MARKING COATINGS	100
TILE REFINISH COATINGS	420
RPROOFING MEMBRANES	250
COATINGS	275
PRESERVATIVES	350
	340

MS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS. SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN

#### UES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, TECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification

2. Field verification of on-site product containers

.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and

#### 1. Carpet and Rug Institute's Green Label Plus Program.

2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).

NSF/ANS 140 at the Gold level or higher;

Scientific Certifications Systems Sustainable Choice: or 5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1. 4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard osite wood products used on the interior or exterior of the buildings shall meet the requirements for Idehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et Those materials not exempted under the ATCM must meet the specified emission limits, as shown in

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

#### Product certifications and specifications.

Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).

4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S

standards. 5. Other methods acceptable to the enforcing agency.

1	(January	2020.	Includes	August	2019	Sup
	(Vanual y	2020,	Includes	August		Jup

	<b>Γ 1</b> (January 2020, Inclu	ides August 2019
SPON. ARTY		
	TABLE 5.504.4.5 - FORMALDEHYDE LIMITS	
	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER M	ILLION
	HARDWOOD PLYWOOD VENEER CORE	0.05
	PARTICLE BOARD	0.09
	MEDIUM DENSITY FIBERBOARD	0.11
	THIN MEDIUM DENSITY FIBERBOARD2	
	AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTS ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIO 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNES	ED IN ACCORDANCE WITH ASTM E 1333 FOR NS, TITLE 17, SECTIONS 93120 THROUGH
	<ol> <li>5.504.4.6 Resilient flooring systems. For 80 percent of flooring shall meet at least one of the following:</li> </ol>	
	<ol> <li>Certified under the Resilient Floor Covering Institute</li> <li>Compliant with the VOC-emission limits and testing Department of Public Health's 2010 Standard Meth Version 1.1, February 2010;</li> <li>Compliant with the Collaborative for High Performa and listed in the CHPS High Performance Product I</li> <li>Products certified under UL GREENGUARD Gold (</li> </ol>	requirements specified in the California od for the Testing and Evaluation Chambers, nce Schools California (2014 CA-CHPS) Criteria Database; or
	Program). 5.504.4.6.1 Verification of compliance. Documentation materials meet the pollutant emission limits.	
	<b>5.504.5.3 Filters.</b> In mechanically ventilated buildings, provid filtration media for outside and return air that provides at leas 13. MERV 13 filters shall be installed prior to occupancy, and the same value shall be included in the operation and mainter	t a Minimum Efficiency Reporting Value (MERV) of I recommendations for maintenance with filters of
	Exceptions: Existing mechanical equipment.	
	5.504.5.3.1 Labeling. Installed filters shall be clearly labe rating.	ied by the manufacturer indicating the MERV
	<b>5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.</b> prohibit smoking within 25 feet of building entries, outdoor air intake already prohibited by other laws or regulations; or as enforced by or county, city and county, California Community College, campus of the University of California, whichever are more stringent. When ordinar signage to inform building occupants of the prohibitions.	s and operable windows and within the building as dinances, regulations or policies of any city, he California State University, or campus of the
	SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or e CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (E	exceed the provisions of California Building Code,
	Section 5.407.2 of this code. SECTION 5.506 INDOOR AIR QUALITY 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ve	
	requirements of Section 120.1 (Requirements For Ventilation) of the code, whichever is more stringent, and Division 1, Chapter 4 of CCR 5.506.2 CARBON DIOXIDE (CO <sub>2</sub> ) MONITORING. For buildings or a	R, Title 8.
	ventilation, CO <sub>2</sub> sensors and ventilation controls shall be specified a of the California Energy Code, Section 120(c)(4).	ind installed in accordance with the requirements
	SECTION 5.507 ENVIRONMENTAL COMFORT 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies an (STC) values determined in accordance with ASTM E 90 and ASTM Class (OITC) determined in accordance with ASTM E 1332, using e Section 5.507.4.1 or 5.507.4.2.	E 413, or Outdoor Indoor Sound Transmission
	Exception: Buildings with few or no occupants or where occupants, as determined by the enforcement authority, such as far structures and utility buildings.	
	Exception: [DSA-SS] For public schools and community col subsections apply only to new construction.	eges, the requirements of this section and all
	<b>5.507.4.1 Exterior noise transmission, prescriptive methor</b> the noise source making up the building or addition envelope rating of at least 50 or a composite OITC rating of no less tha 40 or OITC of 30 in the following locations:	or altered envelope shall meet a composite STC
	<ol> <li>Within the 65 CNEL noise contour of an airport.</li> <li>Exceptions:</li> </ol>	
	<ol> <li>L<sup>dn</sup> or CNEL for military airports shall be dete Land Use Zone (AICUZ) plan.</li> <li>L<sup>dn</sup> or CNEL for other airports and heliports for shall be determined by the local general plan</li> </ol>	or which a land use plan has not been developed
	<ol> <li>Within the 65 CNEL or Ldn noise contour of a freewa fixed-guideway source as determined by the Noise</li> </ol>	
	<b>5.507.4.1.1.</b> Noise exposure where noise contours a noise level of 65 dB $L_{eq}$ - 1-hr during any hour of operate exterior wall and roof-ceiling assemblies exposed to the at least 45 (or OITC 35), with exterior windows of a minimum sector windows of a minimum sector with the exterior with the exterior windows of a minimum sector with the exterior with the exteri	ion shall have building, addition or alteration e noise source meeting a composite STC rating o
	5.507.4.2 Performance Method. For buildings located as de roof-celling assemblies exposed to the noise source making u envelope shall be constructed to provide an interior noise env not exceed an hourly equivalent noise level (Leq-1Hr) of 50 d	efined in Section 5.507.4.1 or 5.507.4.1.1, wall an up the building or addition envelope or altered fronment attributable to exterior sources that doe
	<b>5.507.4.2.1 Site Features.</b> Exterlor features such as a appropriate to the building, addition or alteration projection	sound walls or earth berms may be utilized as
	5.507.4.2.2 Documentation of Compliance. An acou sound levels shall be prepared by personnel approved by	
	5.507.4.3 Interlor sound transmission. Wall and floor-ceilin spaces and public places shall have an STC of at least 40.	g assemblies separating tenant spaces and tena
	<b>Note:</b> Examples of assemblies and their various STC ratings Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_i	
	SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Install equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.	
	<b>5.508.1.1 Chlorofluorocarbons (CFCs). I</b> nstall HVAC, refrig contain CFCs.	eration and fire suppression equipment that do no
	5.508.1.2 Halons. Install HVAC, refrigeration and fire suppres	
	5.508.2 Supermarket refrigerant leak reduction. New commercial provisions of this section when installed in retail food stores 8,000 s	

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 condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and potentially other refrigerants.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING VERIFICATIONS, THIS CHECKLIST IS TO BE USED AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

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NOT APPLICABLE RESPONSIBLE PARTY (Ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC. VA RESPON PARTY 5.508.2.1 Refrigerant piping. 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 diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below. 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 Inch may be used in systems with a refrigerant charge of 5 pounds or less. 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 mis.

> 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiling seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

#### 5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of ong radius elbows.

5.508.2.2 Valves. Valves Valves and flttlngs shall comply with the *California Mechanical Code* and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

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 rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. 5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

> Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coll coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

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.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

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.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging. 5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

hold for 30 minutes. 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

## **CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS**

### 702 QUALIFICATIONS

**702.1 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 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 systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs. 2. Public utility training programs.
- 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

**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 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 other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector.

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade.
- Other programs acceptable to the enforcing agency.

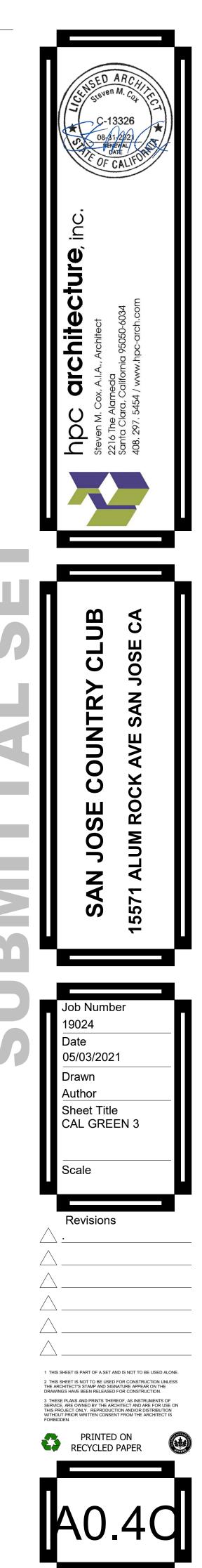
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes In California according to the Home Energy Rating System (HERS).

[BSC-CG] 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 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, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

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.

## 703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, 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 special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



## - DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm. 1. Another handler (typically a business that specializes in collecting, storing, accumulating and shipping universal wastes). Examples:

- A household hazardous waste facility
- A "Take-it-Back Partner" such as a retailer or manufacturer
- A collection event
- 2. A universal waste transporter. Examples:
  - A curbside HHW collection program
  - A package service (e.g., postal service, UPS)
  - A destination facility that offers a pick-up service

3. A universal waste destination facility (generally, a facility with a permit to treat, store, or dispose of hazardous waste).

Search engines available to find locations accepting universal waste in your area: E-Recycle.org; Earth911.org; CalRecyle database; DTSC map; HHW list;

> For more information, see DTSC's Universal Waste Web page at: https://dtsc.ca.gov/universalwaste/

Contact your DTSC regulatory assistance officer at: (800) 728-6942



## - 🖄 Department of Toxic Substances Control

• Provide personnel training to personnel who manage universal waste, or who supervise personnel who manage universal waste and keep training records

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm.

- Respond to releases of universal waste or its contents; determine if spill residuals are hazardous waste
- Track shipments by keeping records of what was received and shipped (name, address, quantities) for three years

Universal Waste Transporters

A universal waste transporter is a person engaged in the offsite transportation of universal waste by air, rail, highway or water. A universal waste transporter may be:

- 1. Universal waste handler carrying universal waste in his or her own vehicle 2. A package shipping service (e.g., US Postal Service; FedEx, UPS)
- 3. A commercial carrier (e.g., a trucking company, a hauler specializing in universal waste, or the operator of a destination facility that offers a universal waste pick-up service)
- If you do not own or operate a facility that accepts, generates, accumulates, or stores universal waste, but you pick up and transport universal waste (e.g., electronic devices from office complexes) to a recycling or collection facility, you are a universal waste transporter. Universal waste transporters do not need to notify DTSC or submit annual reports for their transportation activities.
- Universal waste transporters may store universal waste at a transfer facility for up b 10 days (depending on local zoning). A universal waste transporter who exceeds this limit is considered a universal waste handler and is subject to the handler requirements summarized above.

#### Destination Facilities

A destination facility is a fully-regulated hazardous waste facility that treats, disposes of, or recycles a specific type of universal waste. Examples of destination facilities are hazardous waste recycling facilities and hazardous waste landfills. A destination facility shall manage the universal waste in accordance with the requirements and conditions in its hazardous waste facility permit, unless authorized by section 66273.60 of title 22 of the California Code of Regulations to manage it pursuant to the reduced requirements applicable to universal waste handlers. A destination facility is required to follow certain rules for shipping universal wastes off-site and for rejecting shipments that contain universal waste and is required to keep records of all shipments received for three years. A facility that only accepts and accumulates universal waste is not a destination facility. Such a facility is regulated as a universal waste handler.

### - STATE OF CALIFORNIA

- Department of Toxic Substances Control

Households and Conditionally Exempt Small Quantity Universal Waste Generators (CESQUWG)

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm.

Two categories of universal waste handlers-households and CESQUWGs-are exempt from most of the requirements of the universal waste regulations provided they comply with certain conditions. Handlers who qualify for these exemptions are not required:

- To obtain an EPA ID number or otherwise notify DTSC;
- To keep records of shipments or provide annual reports to DTSC; or
- To label their universal waste.

A <u>household</u> is defined to include a single detached residence (e.g., a house) or a single unit of a multiple residence unit (e.g., an apartment or condominium). Households that generate hazardous wastes other than universal wastes (e.g., paints and motor oil) can visit DTSC's Household Hazardous Waste web page for information on how to properly dispose of them.

A Conditionally Exempt Small Quantity Universal Waste Generator (CESQUWG) is a universal waste generator who produces less than 100 kilograms (220 pounds) of RCRA hazardous waste, including universal waste that is RCRA universal waste and less than 1 kilogram of acutely hazardous waste in a calendar month. (RCRA hazardous waste is hazardous waste that is regulated under the hazardous waste regulations adopted by the U.S. Environmental Protections Agency.)

Pursuant to section 66273.8 of title 22 of the California Code of Regulations, a generator who meets the definition of a household or a CESQUWG is exempt from universal waste handler requirements provided he or she:

- 1) Does not dispose of universal waste;
- 2) Relinquishes universal waste only to another universal waste handler, a universal waste transporter, a destination facility, or a curbside household hazardous waste collection program; and
- 3) Does not conduct treatment of universal waste, except for limited activities enumerated in the regulations (e.g., removing batteries, light bulbs, or mercury switches). This exemption applies only to universal waste generated by the household (e.g. light bulbs, computers, televisions, thermostats, cell phones, etc.), not to universal waste accepted from other people.

Where can I send universal wastes?

A handler may not send universal waste to a municipal solid waste (garbage) landfill or a non-hazardous waste recycling center. All handlers of universal waste must relinquish their universal waste to one of the following:

the trash.

- STATE OF CALIFORNIA

## - DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm.

## Fact Sheet, January 2010 Universal Waste Fact Sheet

California's Universal Waste Rule allows individuals and businesses to transport, handle and recycle certain common hazardous wastes, termed universal wastes, in a manner that differs from the requirements for most hazardous wastes. The more relaxed requirements for managing universal wastes were adopted to ensure that they are managed safely and are not disposed of in

#### What are Universal Wastes?

Universal wastes are hazardous wastes that are widely produced by households and many different types of businesses. Universal wastes include televisions, computers and other electronic devices as well as batteries, fluorescent lamps, mercury thermostats, and other mercury containing equipment, among others.

The hazardous waste regulations (Cal. Code Regs, title 22, division 4.5, chapter 11 section 66261.9) identify seven categories of hazardous wastes that can be managed as universal wastes. Any unwanted item that falls within one of these waste streams can be handled, transported and recycled following the simple requirements set forth in the universal waste regulations (UWR) (Cal. Code Regs, title 22, division 4.5, chapter 23)

#### Universal wastes are:

1. Electronic devices: Includes any electronic device that is a hazardous waste (with or without a Cathode Ray Tube (CRT)), including televisions, computer monitors, cell phones, VCRs, computer CPUs and portable DVD players.

2. Batteries: Most household-type batteries, including rechargeable nickel-cadmium batteries, silver button batteries, mercury batteries, alkaline batteries and other batteries that exhibit a characteristic of a hazardous waste

3. <u>Electric lamps</u>: Fluorescent tubes and bulbs, high intensity discharge lamps, sodium vapor lamps and electric lamps that contain added mercury, as well as any other lamp that exhibits a characteristic of a hazardous waste. (e.g., lead).

4. Mercury-containing equipment: Thermostats, mercury switches, mercury thermometers, pressure or vacuum gauges, dilators and weighted tubing, mercury rubber flooring, mercury gas flow regulators, dental amalgams, counterweights, dampers and mercury added novelties such as jewelry, ornaments and footwear.

5. <u>CRTs</u>: The glass picture tubes removed from devices such as televisions and computer monitors.

6. CRT glass: A cathode ray tube that has been accidently broken or processed for recycling.

7. Non-empty aerosol cans

Universal Wastes may not be disposed of in the trash!

STATE OF CALIFORNIA

## - Appendix Department of Toxic Substances Control

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm.

**Regulatory Standards for Universal Waste** 

The UWR has separate requirements for each of the three types of regulated entities: 1. Universal waste handlers 2. Universal waste transporters

3. Destination Facilities

Universal Waste Handlers

A universal waste handler is a generator of universal waste or the owner or operator of a facility that receives universal waste from another universal waste handler, accumulates universal waste, and sends universal waste to another universal waste handler, a facility that accepts hazardous waste, or a foreign country.

A universal waste handler may be:

1. A person (e.g., a household or business) who generates universal waste but does not accept universal waste from others 2. A person who accepts and accumulates universal waste generated by others at his or her

facility 3. A person who accepts universal waste generated by others and conducts certain treatment

and recycling activities allowed by the universal waste handler regulations

Management Requirements for Universal Waste Handlers (Cal. Code Regs, title 22, sections 66273.30 through 66273.39; additional requirements for handlers who conduct authorized treatment, Cal. Code Regs, title 22, sections 66273.70 through .77)

• Do not dispose of universal waste or treat universal waste except as provided for in the regulations

• Notify DTSC and/or obtain an EPA identification number

• Use proper containment—non-leaking, compatible containers

Segregate universal waste in distinct areas

• Determine if materials generated when handling/recycling are hazardous wastes

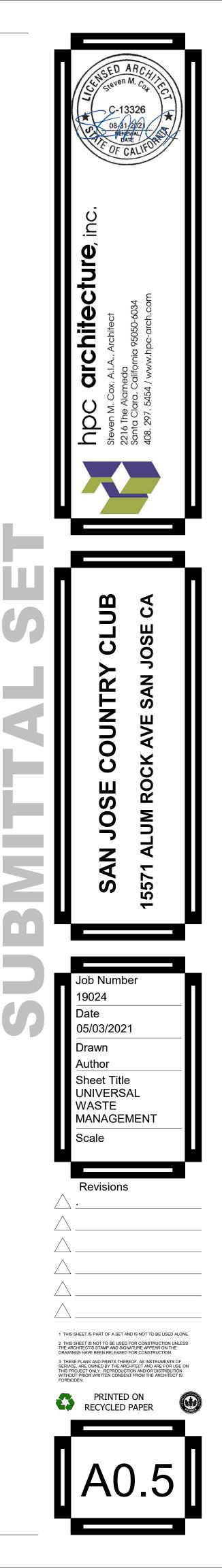
• Comply with applicable requirements for hazardous waste

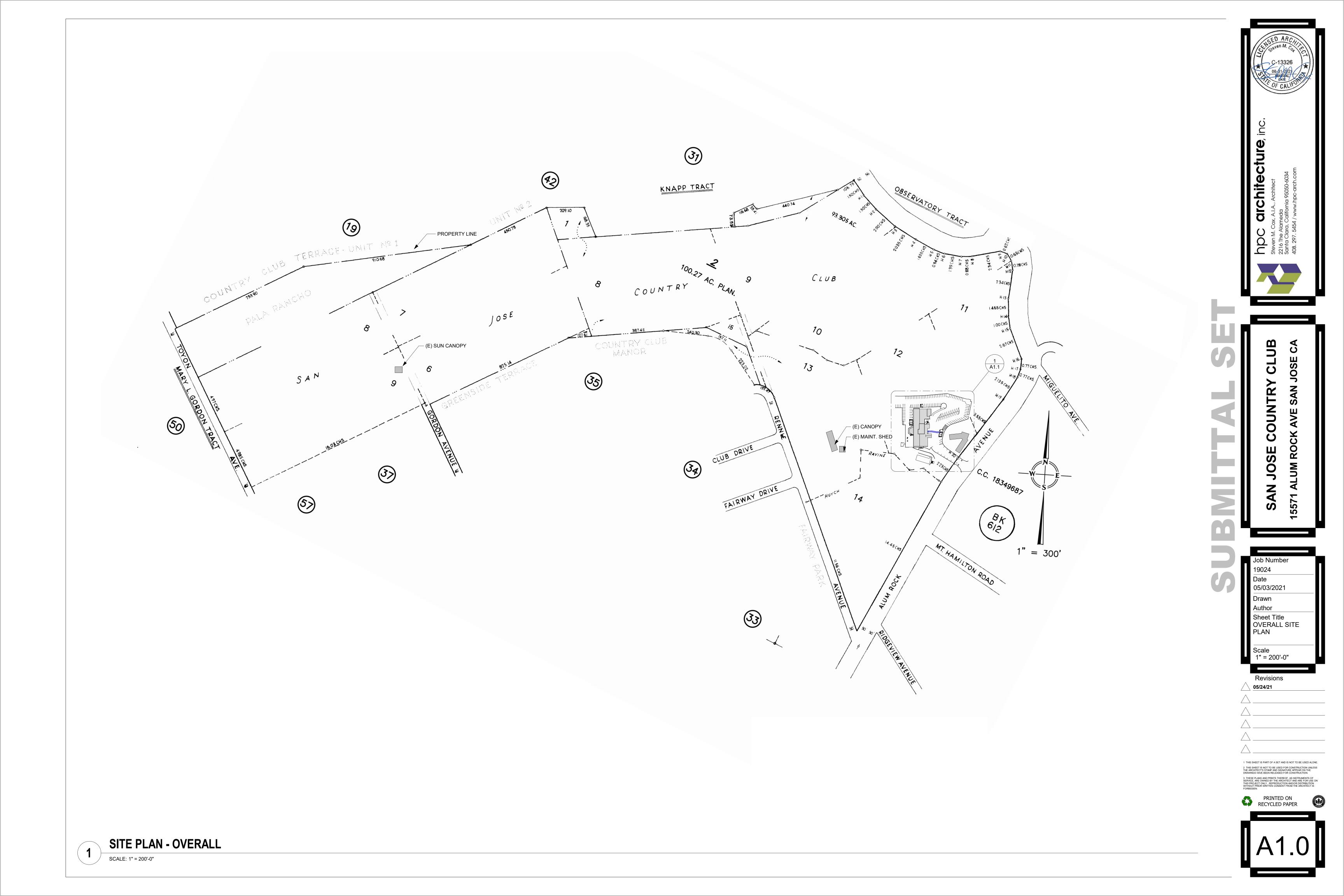
• If applicable, comply with zoning requirements when storing universal wastes • Have spill kits readily available to deal with accidental spills (mercury-containing devices)

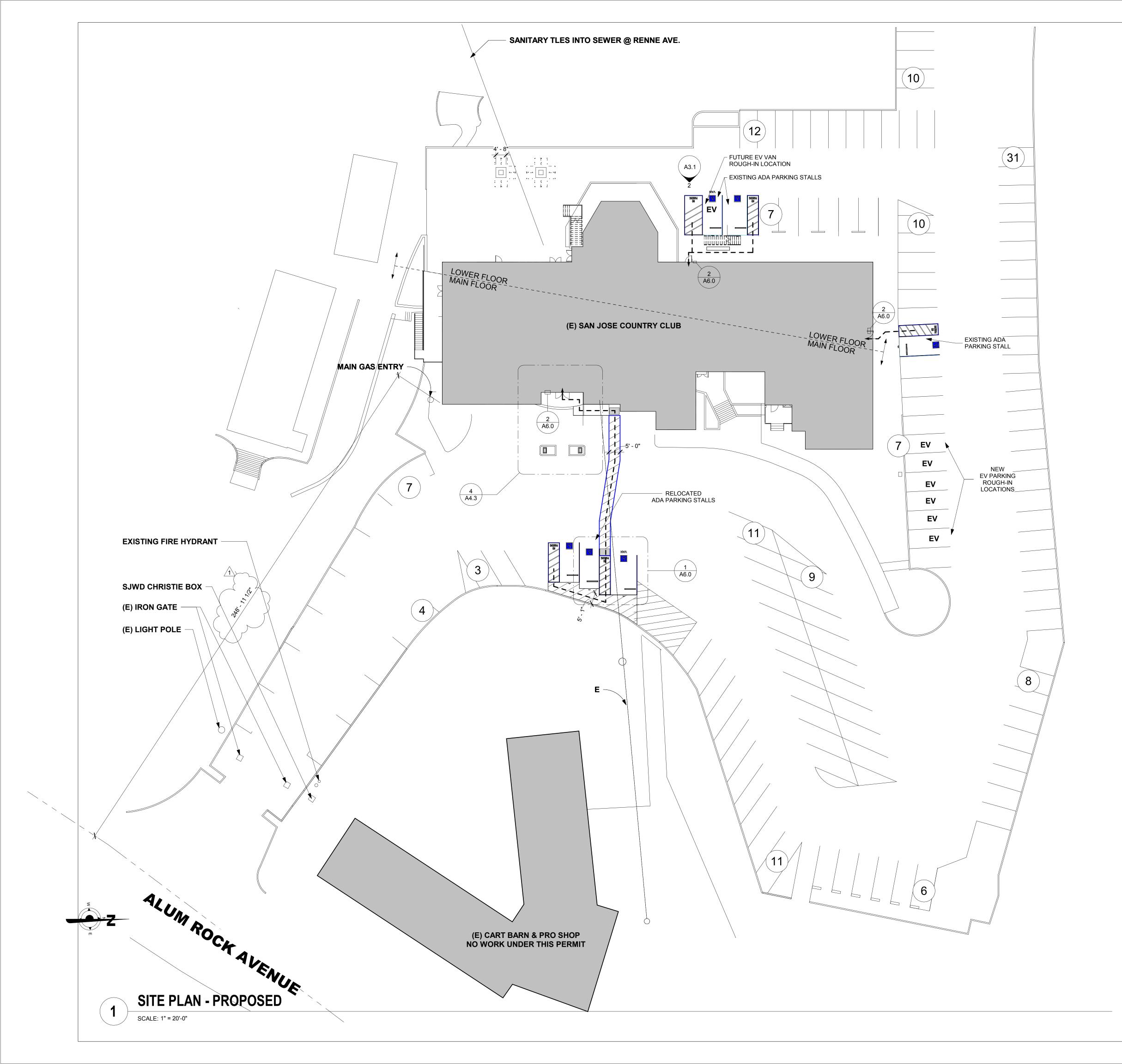
• Use proper labeling and markings

· Accumulate universal waste no longer than one year

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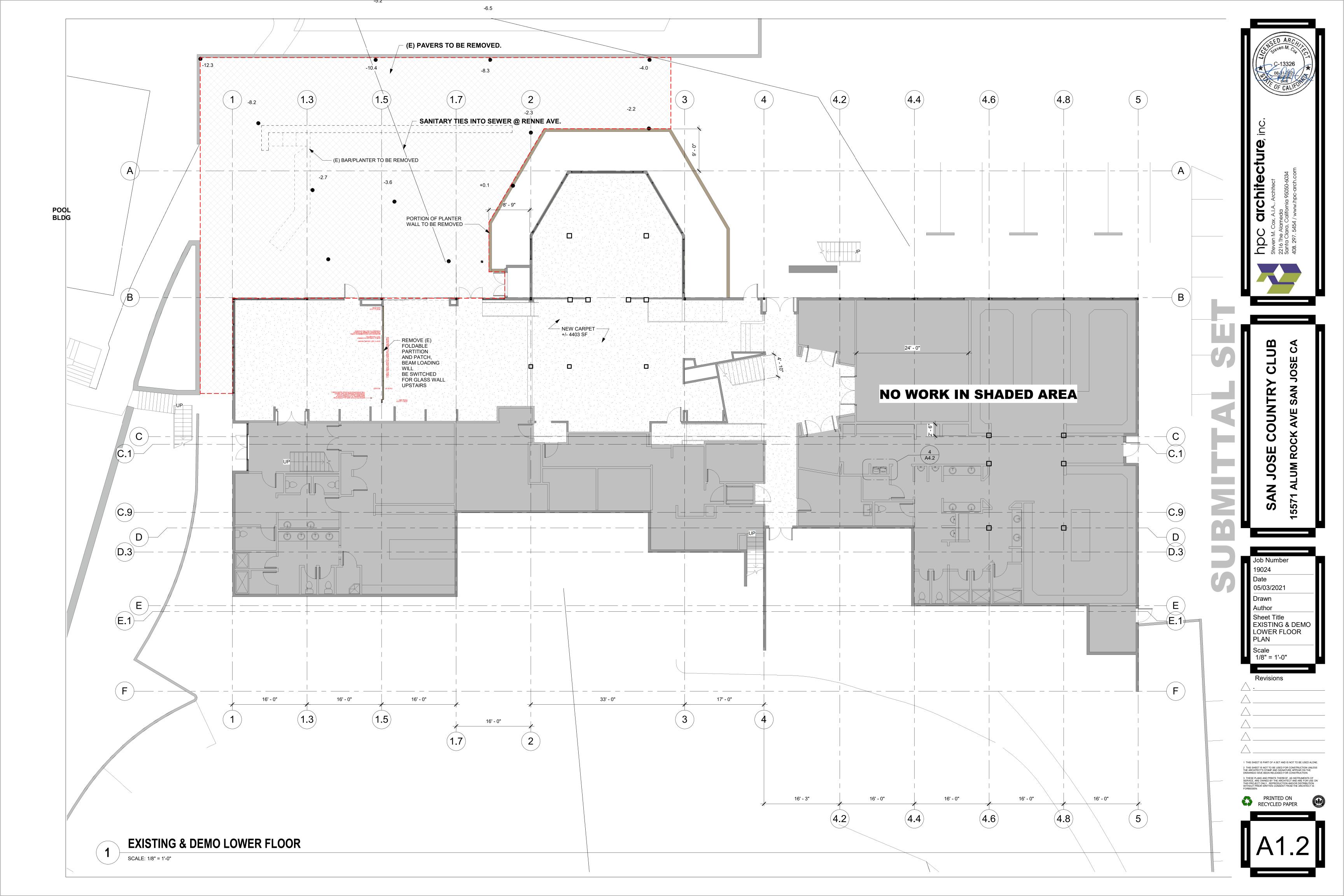
# NOTES

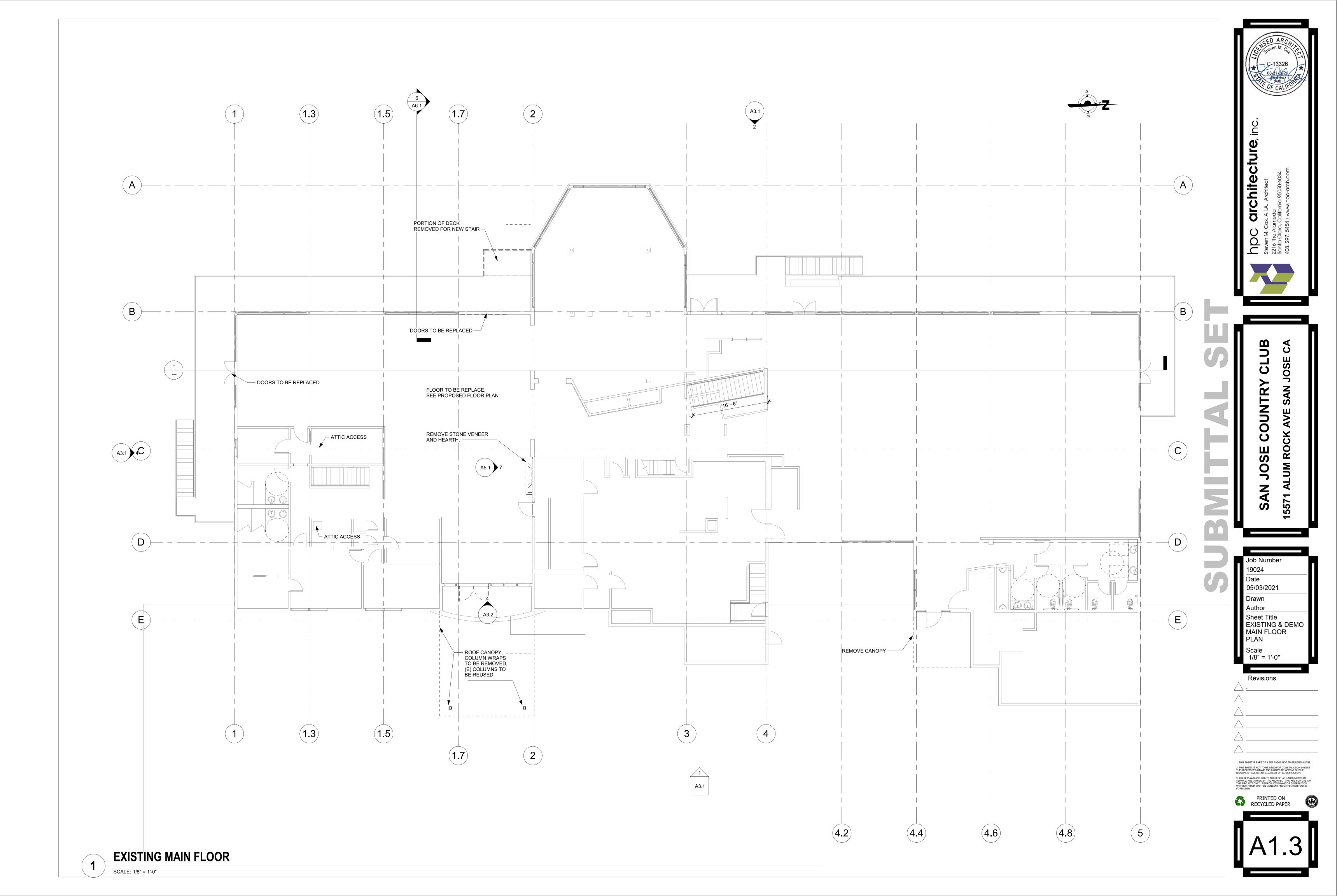
1. ALL STRUCTURES ON PROPERTY OUTSIDE BOUNDS OF ENLARGED SITE PLAN NOTED ON OVERALL SITE PLAN

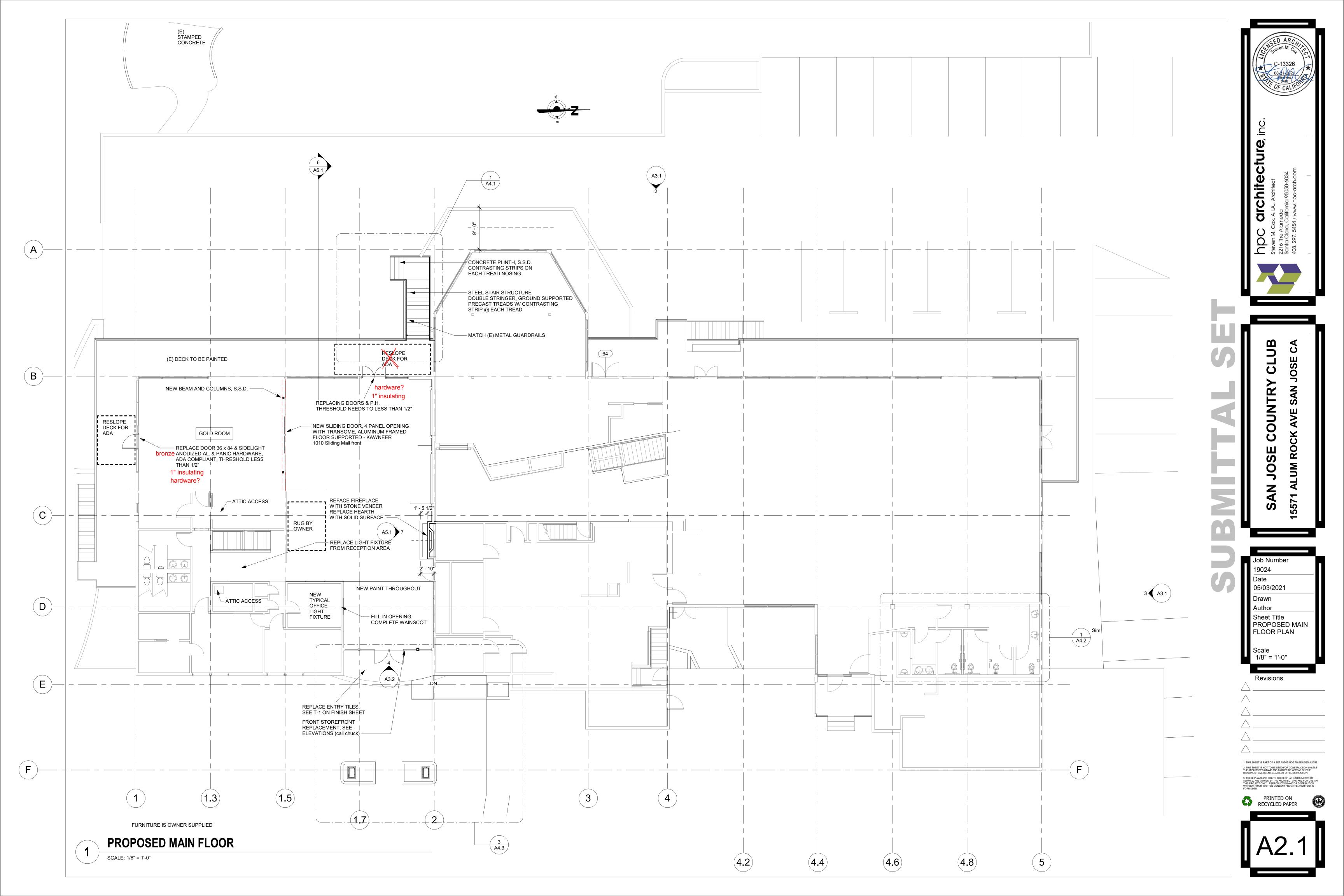
# **PARKING PROVIDED**

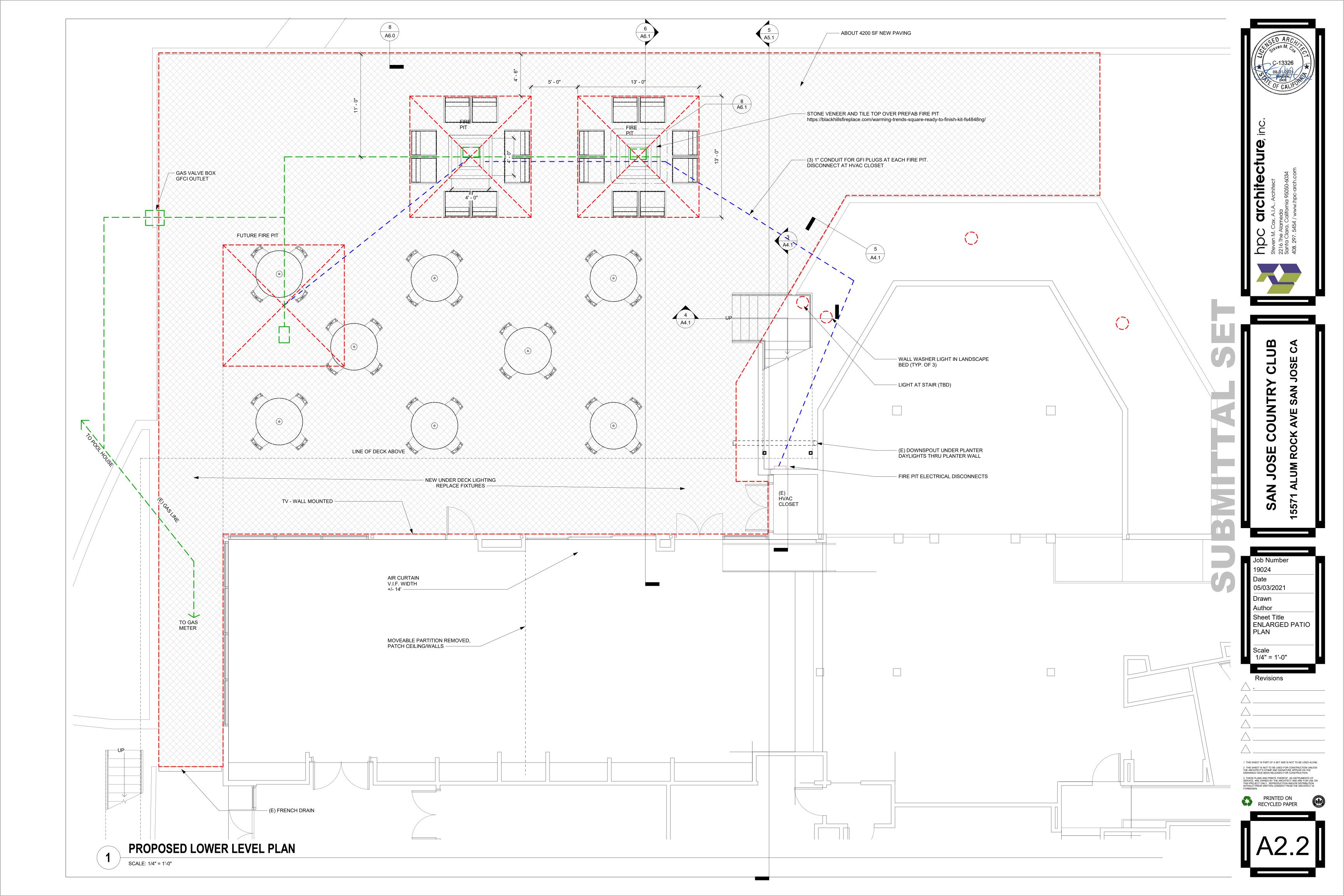
ТҮРЕ	REQUIRED	PROVIDED
STANDARD	-	136 STALLS
ACCESSIBLE	101 TO 150 TOTAL SPACES - 5 STALLS	6 STALLS
STANDARD ACCESSIBLE		4 STALLS
VAN ACCESSIBLE	1 TO 6 ACCESSIBLE SPACES - 1 STALL	2 STALLS
FUTURE EV ROUGH-IN	101 TO 150 TOTAL SPACES - 7 STALLS	7 STALLS

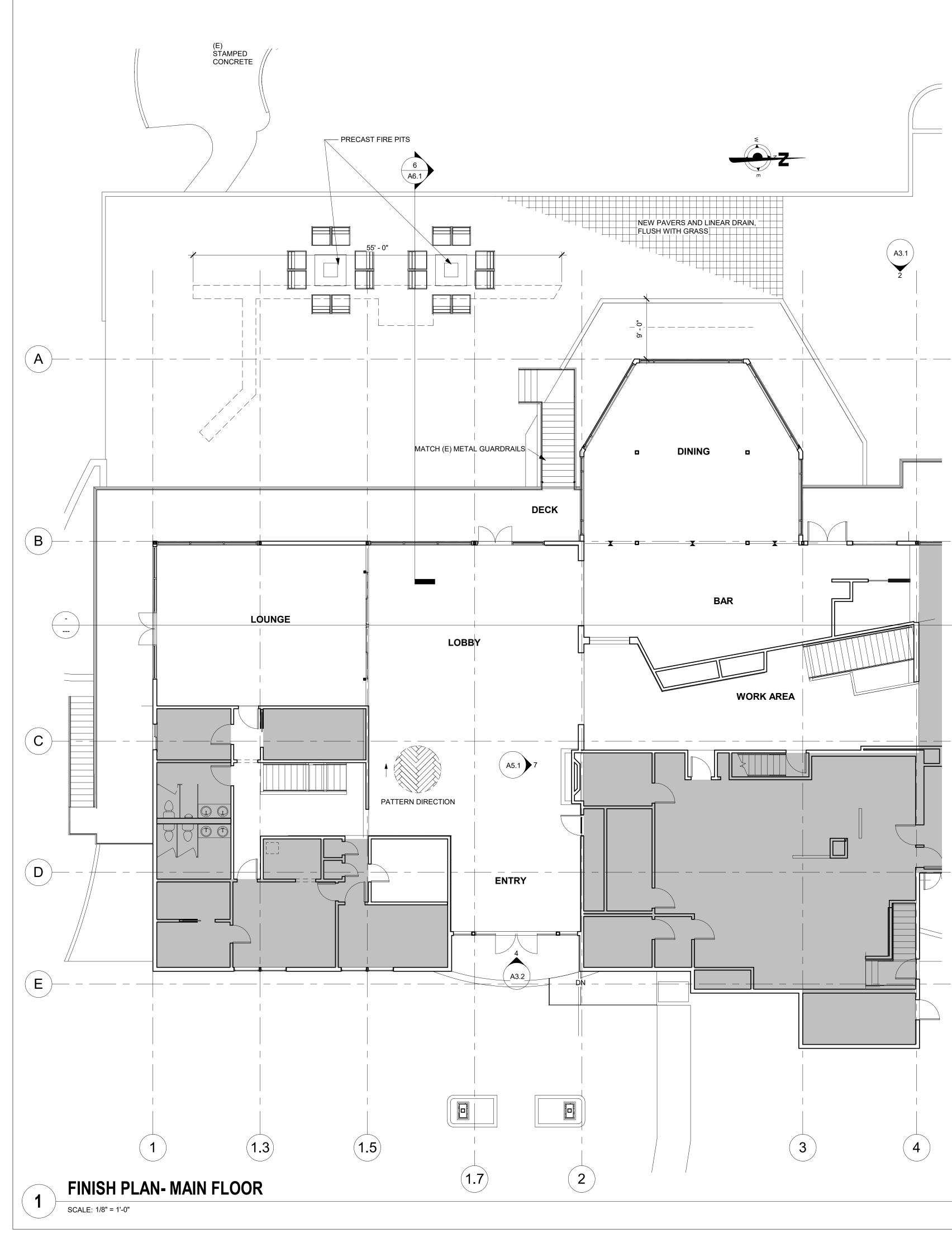












# **FINISH SCHEDULE**

Name	Floor Finish	Base Finish	Wall Finish: N	Wall Finish: E	Wall Finish: S	Wall Finish: W	Ceiling Finish	Comments
BAR	T-1	B-1	P-5	"	"	"	P-5	
DECK	P-1	-	-	-	-	-	-	
DINING	CT-1	B-1	(E)	"	"	"	(E)	
ENTRY	T-1	-	P-5	"	"	"	P-5	
LOBBY	T-1	-	P-5	"	"	"	P-5	
LOUNGE	CT-1	B-1	P-5	"	"	"	P-5	
OFFICE AREA	CT-1	B-1	P-5	"	"	"	P-5	
RECEPTION	(E)	(E)	P-5	"	"	"	P-5	
WORK AREA	T-1	-	P-5	"	"	"	P-5	
STAIR (BAR)	CT-2							
DOWNSTAIRS	CT-2							(roughly 8000 SF)

# **FINISH LEGEND**

DOORS	- PREFINISHED	
D-1	MANUFACTURER COLOR NUMBER	
D-2	MANUFACTURER COLOR NUMBER	CONFERENCE ROOM EXTERIOR
FIREPL	ACE SOLID SURFACE	
SS-1	MANUFACTURER	CAESARSTONE
	COLLECTION FINISH THICKNESS	SUPERNATURAL HONED
	COLOR	5131 CALACATTA NUVO
SS-2		FIREPLACE SOLID SURFACE (EXTERIOR)
FLOOR	- BASE	
B-1	MANUFACTURER TYPE NUMBER COLOR SIZE	PAINTED WOOD BASE TO MATCH (E)
	- CARPET	
CT-1	MANUFACTURER	CROSSLEY AXMINSTER
	STYLE COLOR/NUMBER	AXMINSTER
	GRADE	AX9/280/46
	LOCATION	LOBBY/DINING
CT-2	MANUFACTURER	CROSSLEY AXMINSTER
	COLOR/NUMBER	
	GRADE LOCATION	AX8/280/47 N66 DOWNSTAIRS IN AREA OF WORK
_		
FLOOR HW-1	- IILE MANUFACTURER	HAKWOOD
1100-1	COLOR	LOCKE
	GRADE INSTALLATION	HERRINGBONE
	DIMENSIONS	7" x 42 1/2"
T-1	MANUFACTURER	ARIZONA TILE SAVANNAH
	COLOR	COFFEE
	SIZE	8" X 40" STRAIGHT
P-1	MANUFACTURER COLOR	DUNN-EDWARDS DARK ENGINE
	NUMBER	DE6350
P-2	MANUFACTURER COLOR	DUNN-EDWARDS DE6358
	NUMBER	
PAINT -	WALLS & CEILING	
P-5	MANUFACTURER	BENJAMIN MOORE
	COLOR NUMBER	OXFORD WHITE CC-30
P-7	NOWBER	WAINSCOT & TRIM
PAVER PV-1		
PV-1	MANUFACTURER COLOR NUMBER	CALSTONE CREAM/TAN/BROWN MISSION 3
STONF	VENEER	
ST-1	MANUFACTURER	HERITAGE LEDGE (PENINSULA BLDG MTRLS
	PRODUCT COLOR	CO.) W/ CORNER PIECES
		https://pbm1923.com/index.php?option=com_virt uemart&view=productdetails
		1

NOTE: " SYMBOL INDICATES SAME AS PREVIOUS

# **FINISH NOTES**

<u>SLAB PREPARATION</u> 1. FLOOR SURFACES SHALL BE INSPECTED BY THE CONTRACTOR. THE ARCHITECT SHALL BE NOTIFIED IF FLOOR LEVELING MUST BE NECESSARY FOR PROPER EXECUTION OF THE WORK.

2. CONCRETE SLABS ON GRADE OR NEW CONCRETE FLOORS SHALL BE TESTED FOR MOISTURE PRIOR TO ORDERING THE FLOORING. CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING IF SLAB FAILS TO MEET THE MOISTURE REQUIREMENTS OF THE MANUFACTURER.

<u>FINISHES - GENEF</u> 1. ALL FINISHES SHALL BE BID AS SPECIFIED. ANY SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT PRIOR TO SUBMISSION OF BID.

2. ALL INTERIOR FINISHES SHALL BE IN COMPLIANCE WITH LOCAL AND NATIONAL CODES. THE CONTRACTOR SHALL ADVISE THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF A THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF A NON-COMPLIANT FINISH.

3. ALL FINISHES SHALL BE INSPECTED UPON ARRIVAL TO THE JOB SITE FOR DEFECTS AND DYE LOT CONSISTENCY. NOTIFY ARCHITECT OF ANY DEFECTS PRIOR TO INSTALLATION. THE ARCHITECT SHALL ALSO BE NOTIFIED IMMEDIATELY OF ANY INSTALLATION PROBLEMS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY LEAD TIMES FOR ALL FINISHES. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY FINISHES THAT HAVE EXCESSIVE LEAD TIMES WHEREBY NOT PERMITTING INSTALLATION SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

5. ALL FINISHES SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATIONS.

6. ALL SURFACES SHALL BE PREPARED APPROPRIATELY TO RECEIVE THE SPECIFIED FINISH

7. NONE OF THE FINISHES SHALL BE INSTALLED UNDER CONDITIONS WHICH WOULD JEOPARDIZE THE QUALITY OF THE WORK. ALL WORKMANSHIP WHICH IS JUDGED TO BE LESS THAN FIRST QUALITY BY THE ARCHITECT SHALL BE REJECTED.

8. PROTECT NEW INSTALLED FINISHES FOR DAMAGE THAT MAY OCCUR FROM OTHER TRADES.

9. EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH TOUCH-UP AS REQUIRED.

10. ALL FINISHES SHALL BE LEFT IN A "LIKE NEW" CONDITION.

11. FINISHES OF THE SAME KIND SHALL ALIGN AND NAP, WEAVE OR PATTERN SHALL RUN IN THE SAME DIRECTION, U.N.O.

FLOORING AND BASE 1. ALL IMPERFECTIONS AND SLIGHT DEPRESSIONS IN THE FLOOR SURFACE SHALL BE SKIM COATED. 2. WHERE FLOOR FINISHES OF DIFFERENT THICKNESS' MEET, FLOOR SHALL BE FILLED TO A MINIMUM

SLOPE OF 1" PER 12'-0" TO ALLOW A SMOOTH TRANSITION.

3. WHERE FLOOR FINISHES MEET AT DOORWAYS, TRANSITION OF FINISHES SHALL OCCUR DIRECTLY BENEATH THE CENTER OF THE DOOR LEAF, U.N.O.

4. PROVIDE REDUCER STRIP WHERE FLOOR FINISHES OF DIFFERENT MATERIALS OCCUR APPROPRIATE TO THE TRANSITION. COLOR SHALL BE SELECTED BY THE ARCHITECT.

5. BASE SHALL BE INSTALLED USING WHOLE UNITS. NO PIECE SHALL BE SMALLER THAN 1'-0" AT A CORNER CONDITION.

<u>TAPE, BED, TEXTURE AND PAINT</u> 1. TREAT JOINTS AND FASTENERS IN GYP. BD. IN ACCORDANCE WITH GA-214.

2. LEVEL OF FINISH

- LEVEL 0 NO TAPING OR FINISHING TEMPORARY CONSTRUCTION.
- LEVEL 1 FOR SURFACES IN PLENUM. - LEVEL 2 - FOR WATER RESISTANT GYP. BD. , WAREHOUSE STORAGE.
- LEVEL 3 FOR HEAVY SPRAY OR WHERE TEXTURE IS TO BE USED.

- LEVEL 4 - FOR FLAT PAINT, LIGHT TEXTURES, OR WALLCOVERING IS TO BE USED. - LEVEL 5 - FOR HIGH OR SEMI-GLOSS PAINT, NON-TEXTURED FLAT PAINTS AND IN SEVERE LIGHTING CONDITIONS.

3. PAINT SURFACES PER MANUFACTURER'S RECOMMENDATION, BUT A MINIMUM OF:

- 1 COAT OF PRIMER - 2 COATS OF PAINT
- 4. CAULK THE FOLLOWING LOCATIONS:
- CEILING GRID WALL ANGLE
- TOP OF FRP TRIM
- BETWEEN DOOR JAMB AND WALL
- AT BOTTOMS OF DOOR FRAMES AND VINYL FLOORING - TOP OF METAL TRIM AT SHEET VINYL FLOORING
- CASEWORK TO WALL TRANSITIONS

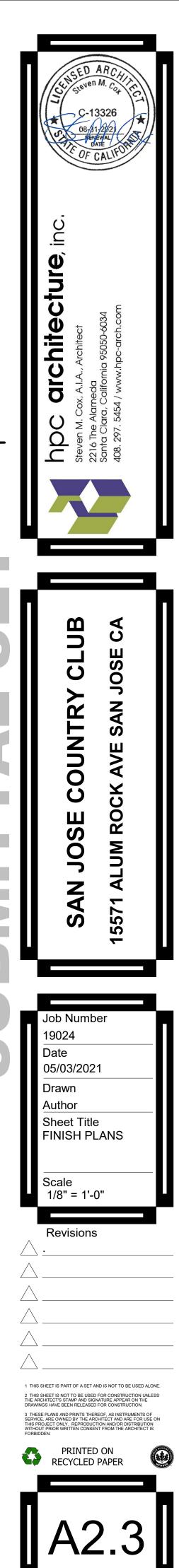
- MULLION TO WALL TRANSITIONS

5. CAULK SHALL MATCH ADJACENT PAINT COLOR.

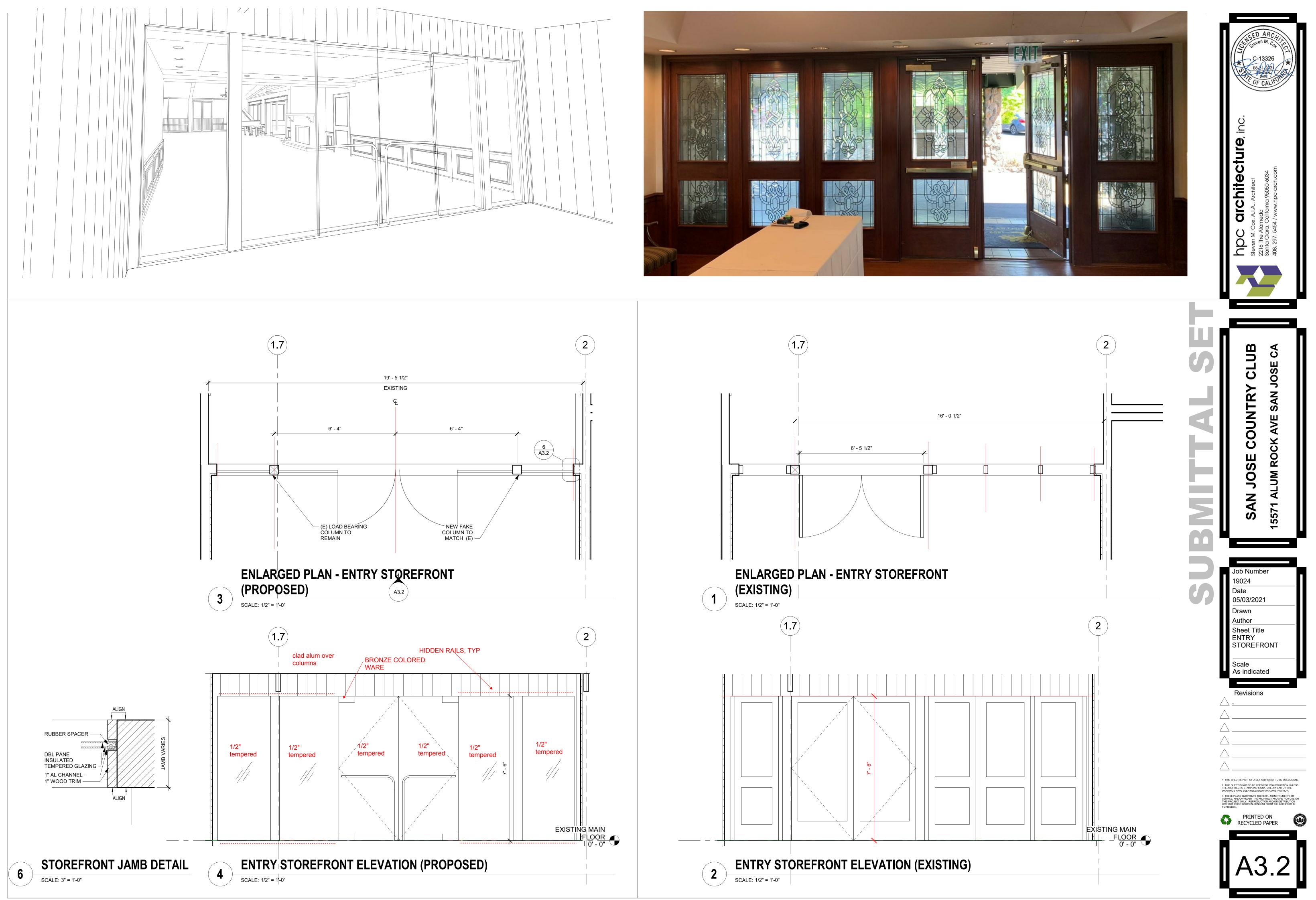
6. DRYWALL CEILING SHALL RECEIVE LEVEL FOUR FINISH WITH SMOOTH ROLLED FINISH, U.N.O. FIRST COAT SHALL BE LATEX QUICK DRY PRIME SEAL. SECOND AND THIRD COATS SHALL BE LATEX EGGSHELL SHEEN.

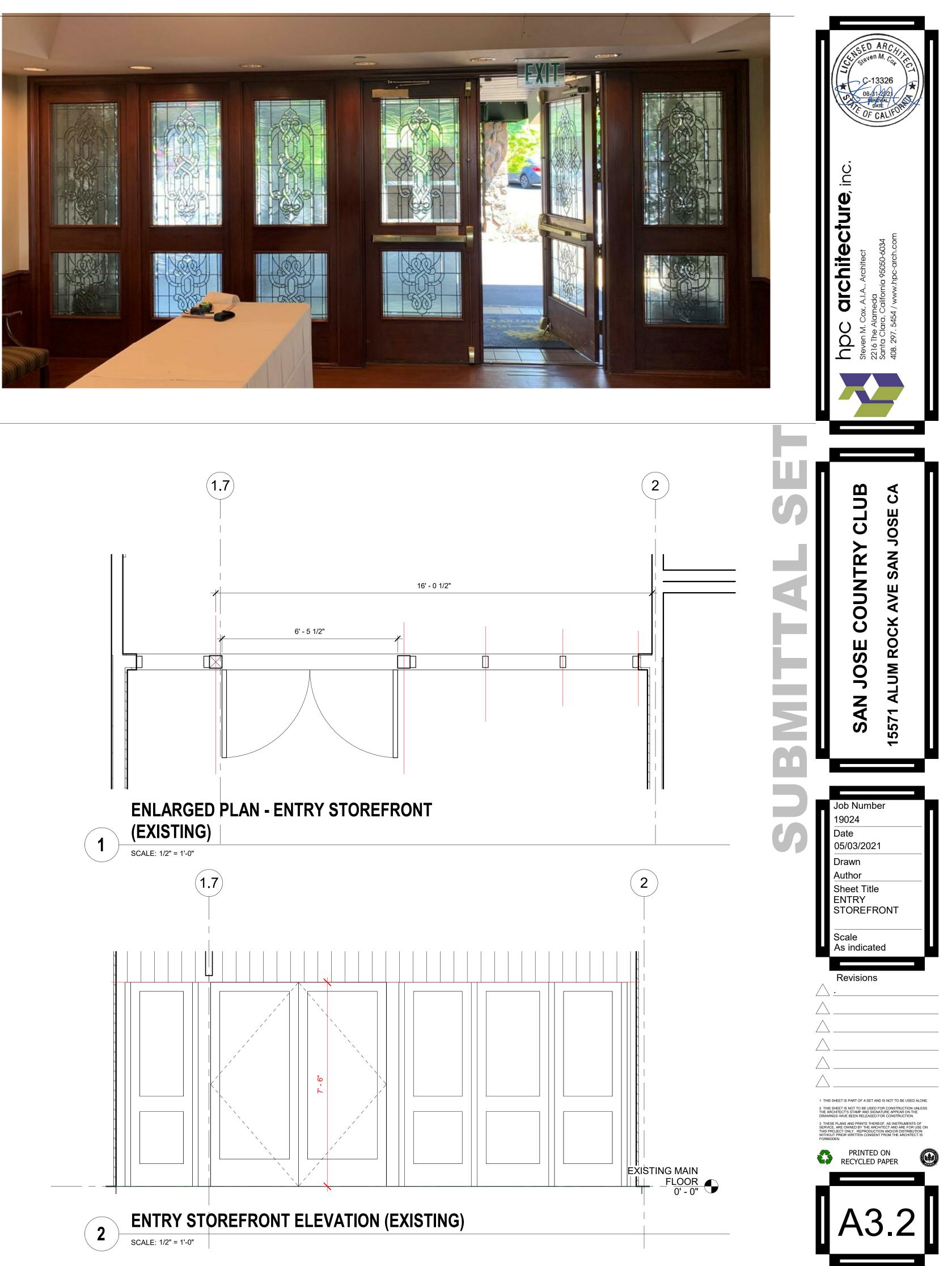
7. EXACT LOCATION OF ACCENT PAINTS AND/OR WALLCOVERING SHALL BE APPROVED ON SITE OR VIA EMAIL BY SATELLITE HEALTHCARE PRIOR TO ORDERING AND INSTALLATION.

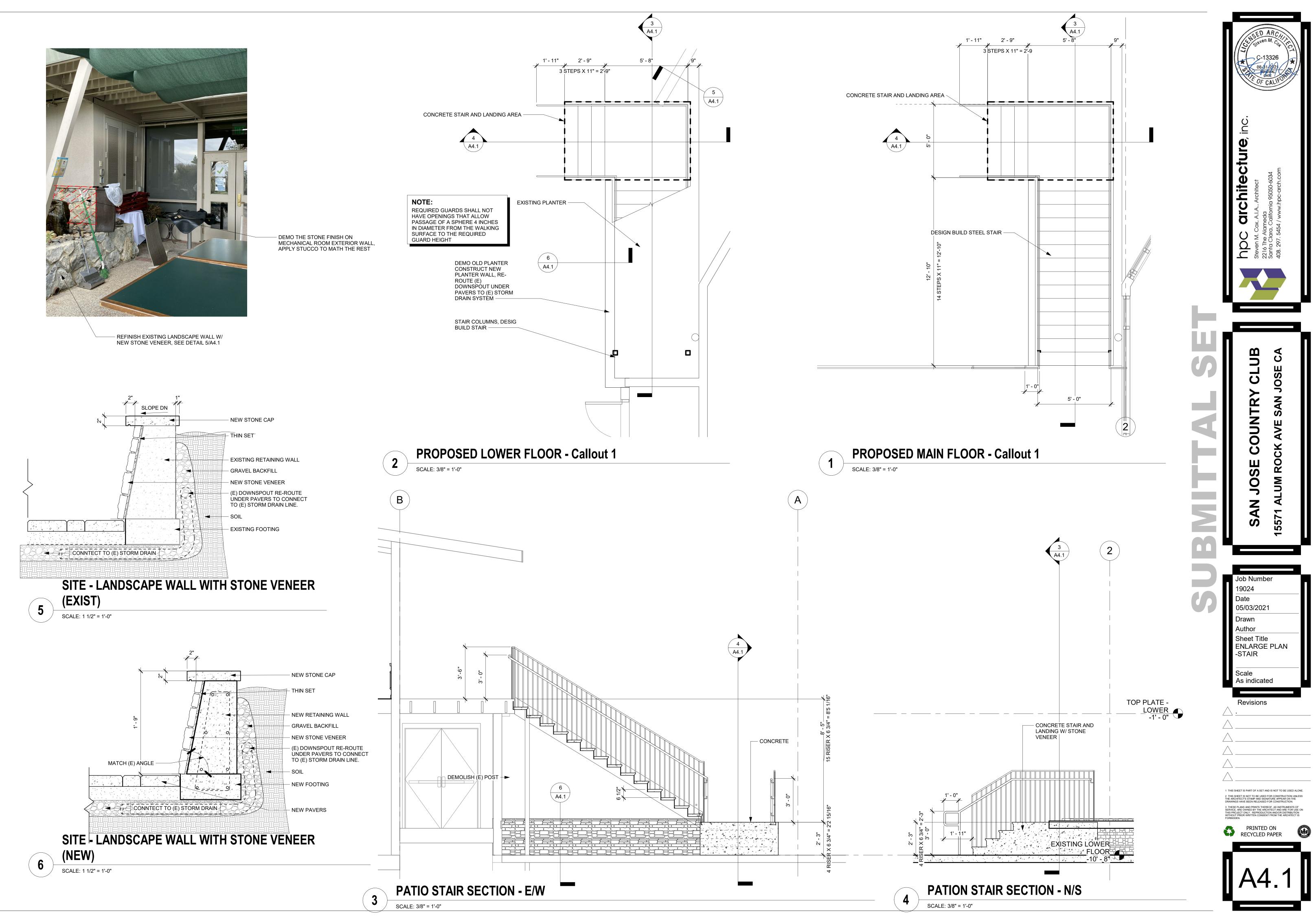
EXTERIOR PAINT

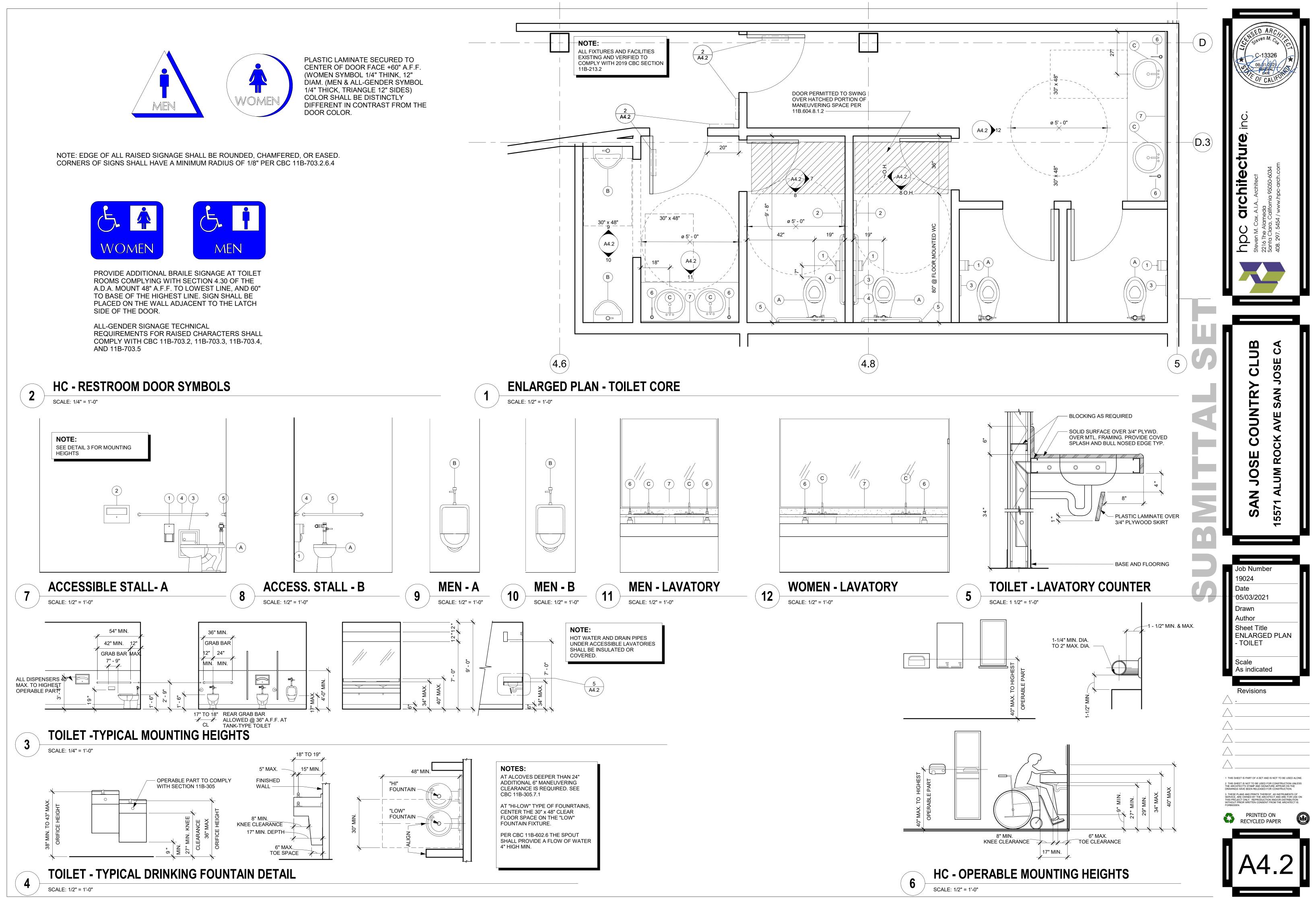


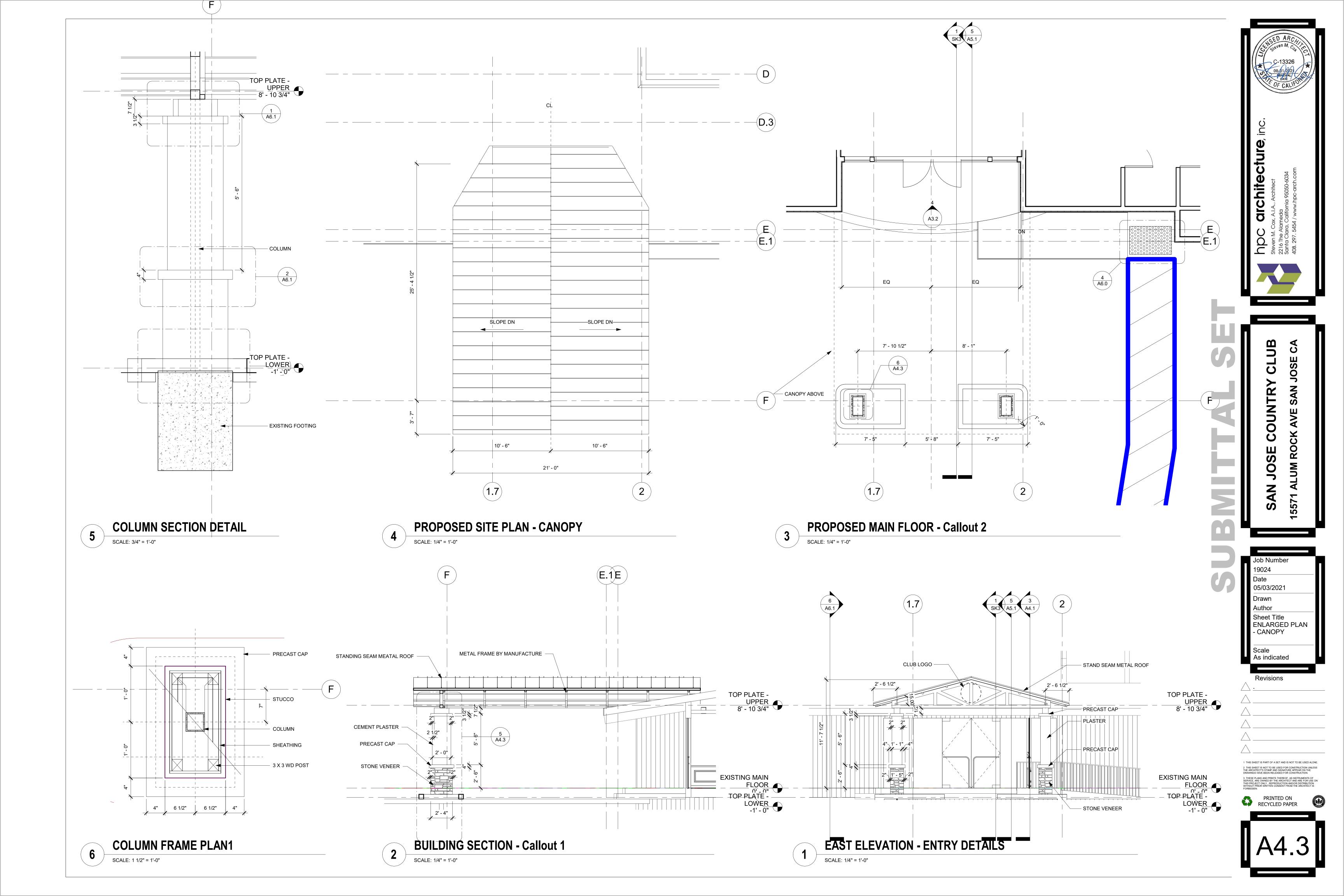


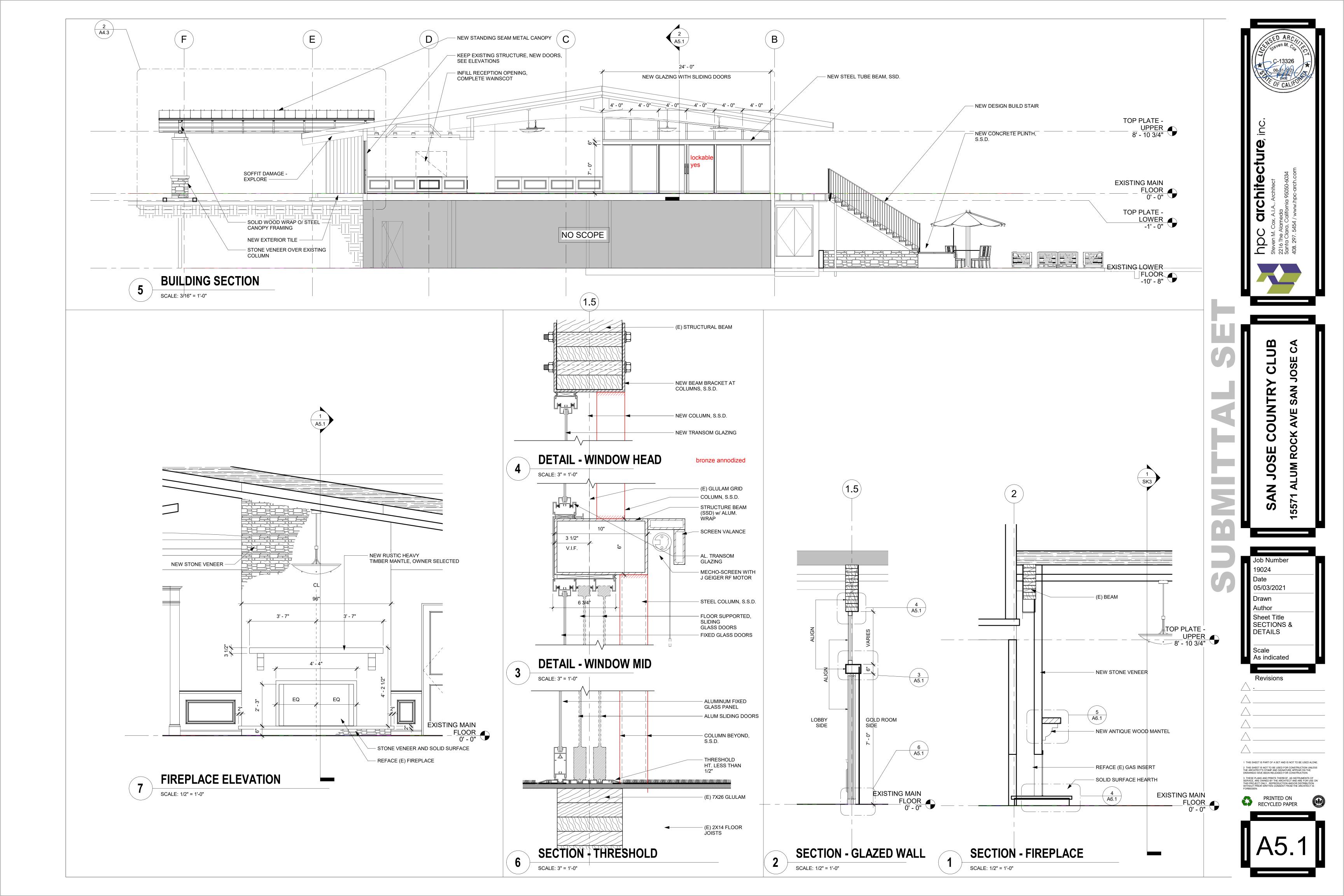


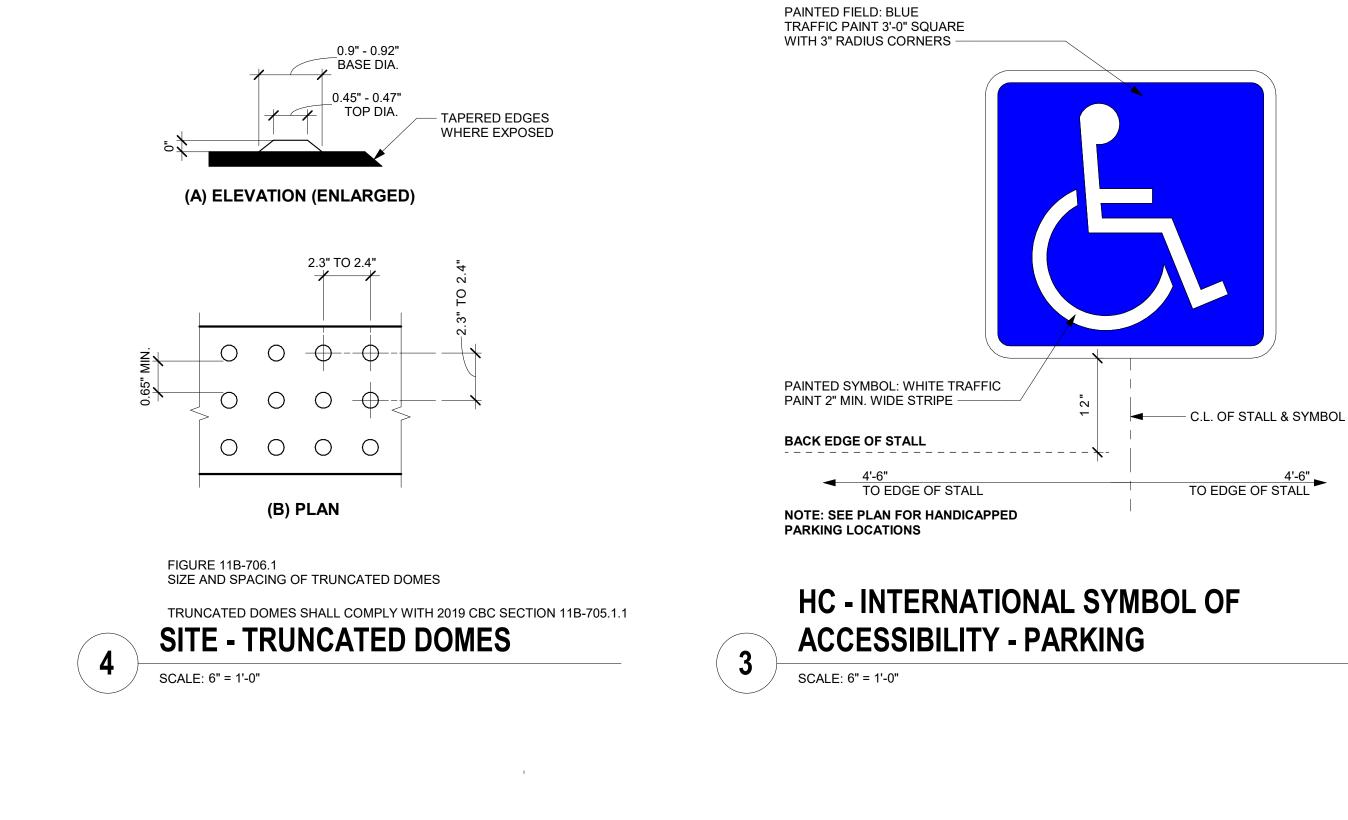


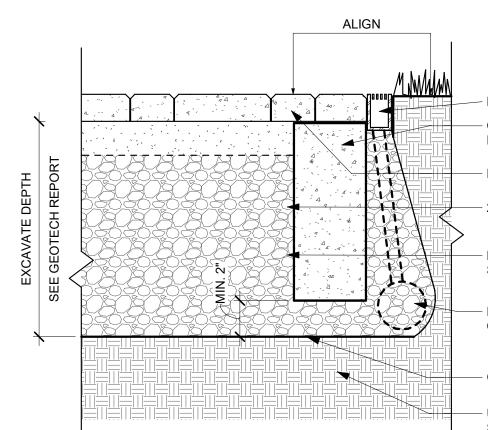












LINEAR DRAIN

- CONCRETE CURB PAVER EDGE

- NEW PERMEABLE PAVERS

- 2" THICK ASTM #8 BEDDING STONE

— MIN 6" THICK COMPACTED #57 BASE STONE, SEE GEOTECH REPORT

PERFORATED DRAINAGE PIPE. CONNECT TO STORM DRAIN

GEOTEXTILE

- UNCOMPACTED NATIVE SOIL SUBGRADE

NOTES:

8

1. PEDESTRIAN USE ONLY 2. DESIGN, MATERIAL AND CONSTRUCTION GUIDELINES TO FOLLOW ICPI GUIDE SPECIFICATIONS

3. PAVER SURFACES SLOPE: MAX 1% 4. SOIL SUBGRADE MAX SLOPE: 1/2%

5. THICKER BASE AND/OR DRAIN PIPES MAY BE REQUIRED IF PATIO RECEIVES RUNOFF FROM ADJACENT IMPERVIOUS

SURFACES OR ROOFS 6. CAST-IN-PLACE CONCRETE CURBS CAN BE WITHOUT PAVERS ON TOP, IN SUCH CASES, CURBS SHOULD BE LEVEL WITH CONCRETE PAVER FIELD



7



NOTES:

SCALE: 6" = 1'-0"

SEE SITE PLANS FOR INTERNATIONAL ACCESSIBILITY SYMBOL LOCATIONS.

HC - INTERNATIONAL SYMBOL OF

2

BLUE COLOR TO BE COLOR NO. 15090 PER FEDERAL STANDARD 595B.

ACCESSIBILITY



UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHED PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT **OWNER'S EXPENSE. TOWED** VEHICLES MAY BE **RECLAIMED AT** 

1234 ABCD STREET MORGAN HILL, CA 95037

OR BY TELEPHONING (408) 123-4567

NOTE: MIN. 17" x 22" SIGN AT EACH ENTRANCE TO OFF STREET PARKING FACILITY

WITH MIN. 1" HIGH TEXT PER CBC SECTION 11B-502.8. SIGNS SHALL BE PERMANENTLY AFFIXED REFLECTORIZED SIGN OF PORCELAIN ON STEEL WITH BEADED TEXT OR EQUAL AND A HEIGHT OF 80" ABOVE FINISHED GRADE

SITE - CONCRETE WHEEL STOP

6"

- 6'-0" LONG PRECAST CONC. (3'-0"

LONG FOR SINGLE STALLS) WHEEL

STOP W/ #2 4 x 18" REINF. BARS 9"

FROM EA. END OF WHEEL STOP.

(2) #3 HORIZ. REINF. BARS, CONT.

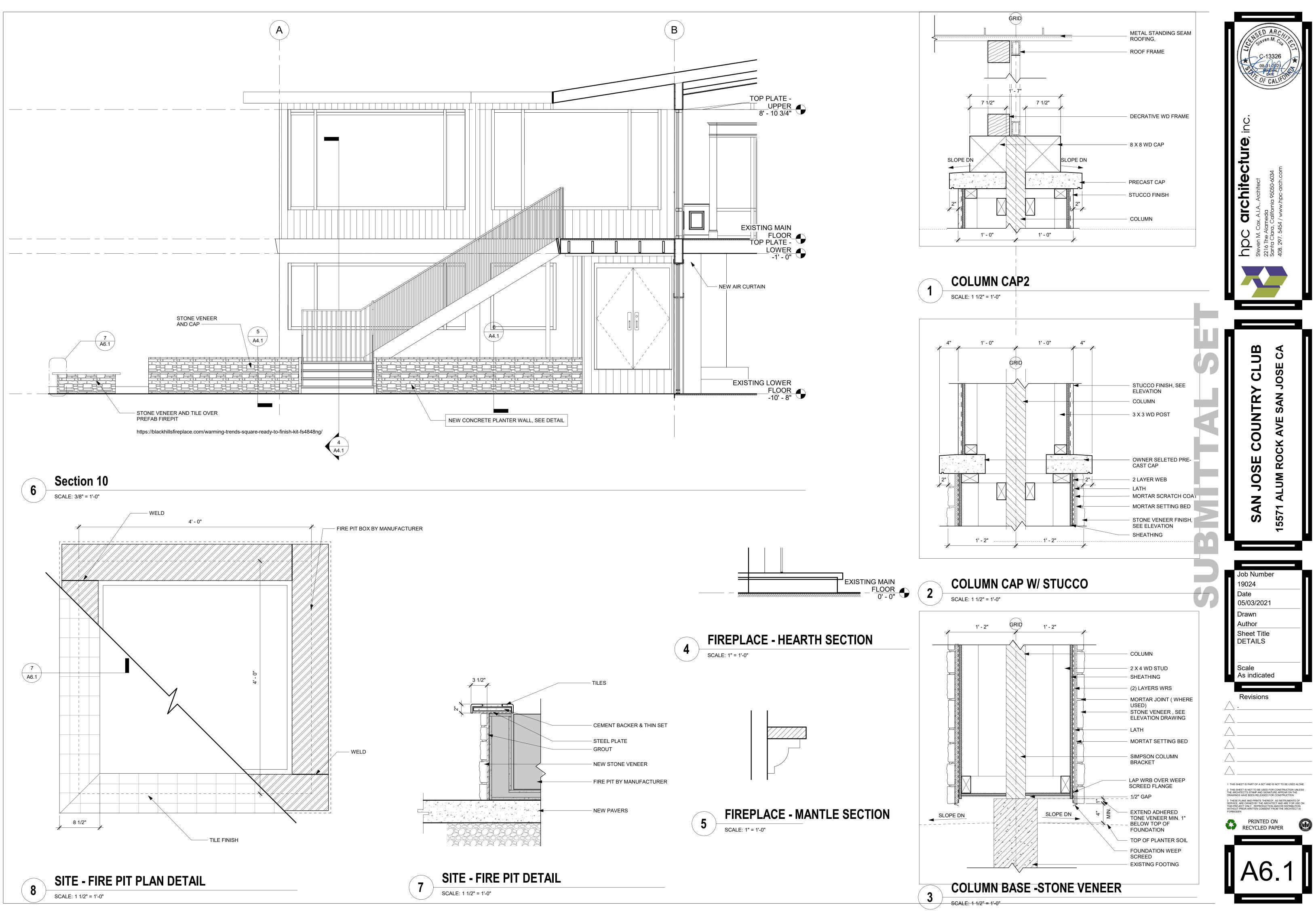
– A.C. PAVING. SEE CIVIL

SEE SITE PLAN FOR LOCATION

SCALE: 1" = 1'-0"







ABBREVIATI	ONS			GE	NERAL NO	OTES		
& AND © AT	INF INT		NFORMATION	<u>GENERA</u>				
Q CENTERLINE Ø DIAMETER ∕ RO	INV JS	V. II ST. J	NVERTED JOIST	1.1 1.2	DO ALL WORK IN A	NOTES AS APPLYING TO AI CCORDANCE WITH ALL STATE	AND LOCAL E	BUILDING CODES
# POUND > GREATER THAN	JT.	A	JOINT		ACCORDANCE WITH	CE OF THE BUILDING. DESI THE 2019 CALIFORNIA BUIL	DING CODE.	
≥ GREATER THAN < LESS THAN	LA	T. L	ENGTH ATERAL POUND	1.3	FOR THE CONSTRUC	LL HAVE NO CONTROL OR ( CTION MEANS, METHODS, TE TY PRECAUTIONS, AND PRO(	CHNIQUES, SEQ	UENCES, OR
<ul> <li>LESS THAN OR</li> <li>(E) EXISTING</li> <li>A&amp;B ABOVE AND BE</li> </ul>	LQUAL TO LF	L	INEAR FEET ONG LEG HORIZONTAL		WORK, THE ACTS OI	R OMISSIONS OF THE CONT NG ANY OF THE WORK OR	RACTOR, SUBCO	ONTRACTOR, OR A
A&B ABOVE AND BE A.B. ANCHOR BOLT ABV ABOVE	LUW LLV LSI	V L H L	ONG LEG VERTICAL			JT THE WORK IN CONFORMA		
AGG. AGGREGATE ALT. ALTERNATE	MA MA	AX. N	AATERIAL AAXIMUM	1.4	USE THE FOLLOWING	G STRUCTURE DESIGN LOADS	S/PARAMETERS:	
ALUM. ALUMINUM APPROX. APPROXIMATE	M.E MC MF	C N	ACHINE BOLT AISCELLANEOUS CHANNEL AECHANICAL		LOAD TYPE	SIGN LIVE LOADS		
ARCH. ARCHITECTURAL ASTM AMERICAN SOC TESTING MATER	ETY OF MF	R. N	MANUFACTURER MINIMUM		ROOF	20 REDUCIE	BLE	
AVG. AVERAGE BLW BELOW	MIS	_B N	AISCELLANEOUS AICRO LAM BEAM		FLOOR-OFFICE FLOOR-PARTITION (AD	50         REDUCIE           DD)         15         NON-REDUCIE		
BLDG. BUILDING BLKG. BLOCKING	MF N/ NE	A N	IANUFACTURER NOT APPLICABLE NON-EXPANSIVE FILL		SI	ITE PARAMETERS		
BM BEAM B.O. BOTTOM OF B.O.S. BOTTOM OF ST	NO	). N	NUMBER NUMBER NEAR SIDE		SITE CLASS Ss S1	SDS SDI RISK Le	SDC	
B.O.S. BOTTOM OF ST BOT. BOTTOM B.A. BASEPLATE	0/ 0.c	/ C	OVER DN CENTER		D 2.262 0.87	7 1.81 – II 1.00	D	
C CHANNEL C.I.P. CAST IN PLACE	1.0 1.0	н. с	DUTSIDE FACE DPPOSITE HAND		SEISMIC	COMPONENT PARAMETE SEISMIC ULT. HOR WIND	1	MPONENT
CL CENTERLINE C.J. CONSTRUCTION	JOINT OP	PP. C	DPENING DPPOSITE DRIENTATION		PARAMETERS	COEFFICIENT PRESSURE		CRIPTIONS
CLR. CLEAR	OW	VSJ C	DPEN WEB STEEL JOIST PILE		Ap         Ap<	0.87 -	SLIDING	PARTITION
CMU CONCRETE MAS COL. COLUMN CONC. CONCRETE	P.C	C. F	PRECAST CONCRETE PERIMETER	1.5		FEATURES OF THE PROJECT ER SIMILAR TO THAT USED		
CONN. CONNECTION CONT. CONTINUOUS	PJI PL	. F	PARTIAL JOINT PENETRATION	1.6	THE EXISTING CONDI	ITIONS SHOWN ON THESE D	RAWINGS ARE [	DEVELOPED FROM
C.A. COMPLETE PEN CTR. CENTER	ETRATION PL' P.S PS	S.D. F	PLYWOOD PER STAIR DETAILER POUNDS PER SQUARE FOOT		ENGINEER DOES NOT	" DRAWINGS AND SOME MIN T TAKE RESPONSIBILITY FOR CTOR SHALL MAKE ALLOWAI	THE COMPLET	E ACCURACY OF
CTR'D CENTERED CTSK. COUNTERSINK	PS	SI F	POUNDS PER SQUARE INCH		ADJUSTMENTS AS MA	AY BE REQUIRED. THE CON WORK FOR PRICING.		
D.B.A. DEFORMED BAR DBL DOUBLE DET. DETAIL	P.1 R	T. F R	PRESSURE TREATED	1.7		VERIFY ALL DIMENSIONS PR DISCREPANCIES MUST BE		
D.F. DOUGLAS FIR DIA. DIAMETER		ICT. R	ROOF DRAIN RECTANGULAR			G WITH WORK. COORDINATE ALL OTHER DRAWINGS ANE		
DIAG. DIAGONAL DIM. DIMENSION		INF. R	REFERENCE REINFORCEMENT	1.8	ENGINEER OF ANY C	ONS OF EXISTING CONSTRUCCONDITIONS THAT DIFFER FR	OM AS REPRES	
DIMS. DIMENSIONS. DN. DOWN DWG. DRAWING	RF RS	- F	REQUIRED ROOF ROUGH SAWN	1.9		) PROCEEDING WITH THE WO E DONE SO AS TO MINIMIZE		EXISTING STRUCTU
EA. EACH E.B. EXPANSION BO	S.A	A.D. S	SEE ARCHITECTURAL DRAWINGS	1.10	AND FINISHES. (E) DENOTES EXISTI			
E.F. EACH FACE E.J. EXPANSION JOI	SE NT SIN	СТ. S И. S	SECTION SIMILAR	1.10	SHOULD ANY CONDIT	TION ARISE WHERE THE INTE		
EL. ELEVATION ELEV. ELEVATOR		PEC. S	SHEET METAL SPECIFICAION		BETWEEN THE DRAWI	PPEARS TO BE AN ERROR ( INGS AND FIELD CONDITION, BLE FOR A PROCEDURE TO	THE ENGINEER	SHALL BE NOTIF
EMBED EMBEDMENT E.N. EDGE NAIL	SQ SS SS	S S	SQUARE STAINLESS STEEL SHORT SLOTTED HOLE		PROCEEDS WITH THE	WORK AFFECTED WITHOUT HALL MAKE GOOD ANY RESU	INSTRUCTIONS F	FROM THE ENGINE
E.O. EDGE OF E.O.D. EDGE OF DECK E.O.S. EDGE OF SLAB	ST	AG. S	STAGGERED STANDARD			HICAL ERRORS IN THE SPEC		
E.S. EACH SIDE EQ. EQUAL	ST ST	D. S IFF. S	STANDARD STIFFENER	1.12	WORK ARE IN CONFL	TWO OR MORE DETAILS AF LICT, THE MOST RESTRICTIVE		
EQUIP. EQUIPMENT EQS. EQUAL SPACES	ST ST SY	RL. S	STEEL STRUCTURAL SYMMETRICAL	1.13		ROVED BY THE ENGINEER. ND EACH SUBCONTRACTOR S	HALL CAREFULL	LY EXAMINE THE
ER. ERECTION ETC. ET CETERA EXP. EXPANSION	51 T& T&	دB T	TOP AND BOTTOM		THE ENGINEER ANY	NG HIS WORK BEFORE PROC CONDITION WHICH WOULD P	REVENT THE PR	ROPER AND LEGAL
EXT. EXTERIOR E.W. EACH WAY		B.D. T	TO BE DETERMINED			WORK. NOT REPORTING AN CEPTANCE OF ALL CONDITIO		
F.F. FINISHED FLOO F.N. FIELD NAIL	T.C	Э.С. Т	TOP OF TOP OF CONCRETE	FOUNDA				
F.O. FACE OF F.O.C. FACE OF CONC		Э.S. Т	TOP OF FOOTING TOP OF STEEL TUBE STEEL	2.1	DO EXCAVATIONS AS	NEARLY AS POSSIBLE TO SWHICH ARE POURED AGAII		
F.S. FAR SIDE FT. FOOT, FEET GA GAGE	TY	Έ. Τ	IYPICAL JNLESS OTHERWISE NOTED		UNLESS OTHERWISE	SHOWN. OVER EXCAVATIONS CONCRETE OR MAY BE FOR	MAY BE FILLE	ED WITH ADDITION
GALV. GALVANIZED GL GRID LINE	V.I	I.F. ∖	/ERTICAL /ERIFY IN FIELD			TO AT LEAST 90% RELATIVE AILABLE) FOR ADDITIONAL R		REFER TO SOILS
GLB GLU-LAM BEAN H.D. HOLD DOWN		W.A. V	/ERIFY WITH STAIR DETAILER /ERIFY WITH ARCHITECTURAL DRAWINGS	2.2		OM FORMED GRADEBEAMS O 1 NATIVE SOILS COMPACTED		
HDR HEADER HORIZ. HORIZONTAL HSB HIGH STRENGTH	W I BOLT W/	۷	WIDE FLANGE BEAM	2.3	RELATIVE COMPACTIO	DN.		
H.S.B. HIGH STRENGTH HSS HOLLOW STRUC	I BOLT WF	- V	WIDE FLANGE WITHOUT	2.0	2.3.1 1500 LBS/	SQ. FT. FOR DEAD LOADS.		
HT. HEIGHT I.D. INSIDE DIAMETE	W R W.I	J. V P.J. V	WALL JOINT WEAKENED PLANE JOINT		2.3.3 2000 LBS/	SQ. FT. FOR COMBINED DE SQ. FT. FOR COMBINED DE	AD, LIVE AND S	SEISMIC/WIND LOA
I.F. INSIDE FACE	W.( WT	Γ V	NORK POINT WIDE FLANGE TEE	2.4	BEARING VALUES US	FOR THIS PROJECT HAS BEA SED ARE PER TABLE 1806.2		
	WT W.V		WEIGHT WELDED WIRE FABRIC		CODE.			
SYMBOLS L	EGEND			н	WF	COLUMN		
NOTE:				0	HSS	S COLUMN		
	LOW IS GENERIC. FOR ADDI ANS, REFERENCED DETAILS		FORMATION AND REFERENCED RENCED NOTES.	SLOPE		PED SURFACE. ARROW HEA	D POINTS TO L	.OWER
	AST IN PLACE CONCRETE			77777		VATION ANGE IN SLAB OR FLOOR E	EVATION WITH	RESPECT TO
E	XISTING CONCRETE OR CMU	J				PICAL ELEVATION		KESI LOT TO
	VALL BELOW				DEP	PRESSION IN CONCRETE SLA	B OR DECK-SL	_AB
	PENING OR PIT			W.P.,	WEA	AKENED PLANE JOINT (W.P.J	.)	
	AISED CONCRETE PAD			C.J.	CON	ISTRUCTION JOINT		
F	AISED CONCRETE PAD			<u>F.F.</u>		SHED FLOOR		
	ARTH / SOIL / GRADE			<b>•</b>		VATION TARGET		
R	OCK OR GRAVEL			·		TION REFERENCE CUT		
	ENTERLINE			<u>A</u>		RRESPONDING SECTION	05.15-	
B c	RID LINE			PHD2	4	ICATES SIMPSON HARDWARE	UK APPROVED	EQUAL
	GENERIC GRID LINE			<u>SEE</u> ON XX		VATION DETAIL REFERENCE		
F	EVISION CLOUD							
F	EVISION DELTA ID							

DETAIL NUMBER

SHEET NUMBER

4+

<u>\$5.0</u>

<u>CONCRETE</u>

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- 3.1 STRUCTURAL CONCRETE SHALL CONFORM TO ACI318–14 CODE REQUIREMENTS. CEMENT: ASTM C150 TYPE II. CEMENT SHALL BE OF SAME BRAND, TYPE AND 3.2 SOURCE THROUGHOUT PROJECT. WHERE AGGREGATES ARE POTENTIALLY REACTIVE, USE LOW ALKALI CEMENT.
- AGGREGATES: ASTM C33 AND C88 FROM SOURCES WITH PROVEN HISTORY OF 3.3 SUCCESSFUL USE. SOURCE SHALL BE CONSTANT UNLESS 10 DAYS PRIOR NOTICE IS GIVEN FOR APPROVAL AFTER RECHECK OF MIX DESIGN. SUBMIT SHRINKAGE CHARACTERISTICS AS DETERMINED BY ASTM C157 TO ENGINEER FOR REVIEW AND APPROVAL BEFORE USE.
- 3.4 CONCRETE MIXES SHALL BE NORMAL WEIGHT CONCRETE U.O.N. CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENTS REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE USE. DESIGNS SHALL SHOW PROPORTIONS OF CEMENT, FINE AND COARSE AGGREGATES AND WATER, AND GRADATION OF COMBINED AGGREGATES.
- PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED 3.5 BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:

CONCRETE MIX DESIGN SCHEDULE							
LOCATION	MIN. 28–DAY COMPRESSIVE STRENGTH (PSI)	MAX WATER CEMENT RATIO	SLUMP RANGE (IN.)	MAX. AGGREGATE SIZE (IN.)			
FOUNDATIONS MISCELLANEOUS	3000 3000	0.60 0.55	3"–5" 3"–5"	1 " 1 "			

- 3.6 USE INTERMEDIATE GRADE ASTM A615, GRADE 60 REINFORCING TYPICAL, U.O.N. 3.7 UNLESS OTHERWISE NOTED, OBSERVE THE FOLLOWING REINFORCEMENT CLEARANCES:
  - 3.7.1 NON-PRESTRESSED CONCRETE POURED AGAINST EARTH: 3"
  - 3.7.2 NON-PRESTRESSED CONCRETE EXPOSED TO EARTH OR WEATHER:
  - A. NO. 3 NO. 5 BARS: 1 1/2" B. NO. 6 NO. 18 BARS: 2"
  - 3.7.3 NON-PRESTRESSED CONCRETE NOT EXPOSED TO EARTH OR WEATHER: NO. 3 - NO. 11 BARS: 3/4" B. NO. 14 - NO. 18 BARS: 1 1/2"
- 3.8 PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE SHOWN.
- 3.9 SECURE REINFORCING, ANCHOR BOLTS, INSERTS, ETC. RIGIDLY IN PLACE PRIOR TO POURING CONCRETE.
- 3.10 SUPPORT HORIZONTAL REINFORCING ON GALVANIZED CHAIRS EXCEPT MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT MAY BE USED AT FOOTINGS, AND SLABS ON GRADE.
- 3.11 REMOVE FORMS AT FOLLOWING MINIMUM TIMES AFTER POURING: 3.11.1 AT WALLS LESS THAN 4' HIGH - 36 HOURS
  - 3.11.2 AT SLAB EDGES 24 HOURS
- 3.12 MAKE HOOKS ACI 318-14 STANDARD HOOKS UNLESS OTHERWISE NOTED. PROVIDE 135 DEGREE MINIMUM TURN, PLUS 4" EXTENSION AT FREE ENDS OF COLUMN PILASTER TIES.
- 3.13 MAKE LAPS CONTACT SPLICES, DEVELOPMENT LENGTHS, HOOK EMBEDMENTS PER ACI 318-14, UNLESS OTHERWISE NOTED. STAGGER LAP SPLICES WHERE POSSIBLE.
- 3.14 ALL REBAR SHALL BE COLD BENT.
- STRUCTURAL STEEL
- 4.1 STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL CONFORM TO AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICES. USE AWS SPECIFICATIONS FOR WELDING.
- 4.2 AT CONTRACTORS/DETAILERS OPTION, TO FACILITATE ERECTION, FIELD WELDING MAY BE SUBSTITUTED FOR SHOP WELDING AND SHOP WELDING MAY BE SUBSTITUTED FOR FIELD WELDING.
- 4.3 STRUCTURAL STEEL MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:

STEEL MATERIAL SCHEDULE							
ITEM	SPECIFICATION						
ANGLES RECTANGULAR HSS TUBE STEEL HSS COL BASE PLATE MISCELLANEOUS PLATES MACHINE BOLTS (M.B.) LAG BOLTS THREADED RODS NUTS WELDING ELECTRODES	ASTM A36 ASTM A500 GRADE B ASTM A36 ASTM A36 ASTM A307 GRADE A ASTM A307 GRADE A ASTM A36 ASTM A36 ASTM A563 E70XX						

- 4.3.1 E70T-4 OR NS-3M ELECTRODES SHALL NOT BE USED.
- 4.4 ALL STEEL MEMBERS SHALL BE MADE IN AN APPROVED FABRICATOR'S SHOP. WHEN SHOP SPECIAL INSPECTION IS NOT PROVIDED. THE APPROVED FABRICATOR SHALL SUBMIT THE CERTIFICATE OF COMPLIANCE TO THE BUILDING INSPECTOR PRIOR TO ERECTION.
- LUMBER AND TIMBER FRAMING
- 5.1 LUMBER AND TIMBER FRAMING AND CONSTRUCTION SHALL CONFORM TO AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION" WITH 2018 SUPPLEMENT.
- 5.2 USE DOUGLAS FIR-LARCH FRAMING LUMBER, CLASSIFIED UNDER STRUCTURAL LIGHT FRAMING, MANUFACTURED AND GRADED IN ACCORDANCE WITH WCLIB OR WWPA GRADING RULES, UNLESS SPECIFICALLY SHOWN OTHERWISE AS FOLLOWS:
- 5.2.1 3x, 4x AND 6x JOISTS/BEAMS/SLEEPERS: #1 GRADE OR BETTER 5.3 PROVIDE BOLT HOLES IN WOOD 1/16" LARGER THAN BOLTS. U.O.N. PROVIDE STANDARD ROUND PLATE WASHERS AT HEADS AND/OR NUTS WHICH BEAR AGAINST WOOD TYP. U.O.N.
- LAG SCREWS REQUIRE PREBORED LEAD HOLES. LEAD HOLES FOR THE SHANK 5.4 SHALL HAVE A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER.

NOMINAL	DIAMETER OF LEAD HOLES	FOR DOUGLAS FIR
SCREW	UNTHREADED	THREADED
DIAMETER	SHANK PORTION	SHANK PORTION
3/8"	3/8"	1/4"
1/2"	1/2"	5/16"
5/8"	5/8"	7/16"
3/4"	3/4"	1/2"
7/8"	7/8"	9/16"
1"	1"	11/16"

- 5.5 HD5 ETC. DENOTES "SIMPSON STRONG TIE" CONNECTORS, OR APPROVED EQUAL.
- 5.6 FASTENERS IN CONTACT WITH PRESSURE–PRESERVATIVE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR COPPER. HOT-DIPPED GALVANIZED COATED FASTENERS SHALL CONFORM TO
- ASTM A153. 5.7 ALL STRUCTURAL CONNECTING METAL, HANGERS AND STRAPS IN CONTACT WITH PRESSURE-PRESERVATIVE TREATED MATERIAL SHALL BE HOT-DIPPED GALVANIZED
- PER ASTM A653 (CLASS G-185). 5.8 ALL WOOD FRAMING SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION.
- 5.9 PROVIDE MINIMUM STANDARD NAILING, USING COMMON NAILS, AT EACH BOARD OR MEMBER AT EACH POINT OF CONTACT. EXCEPT WHERE SHOWN OTHERWISE, AS FOLLOWS:
  - 5.9.1 SOLID BLOCKING: 2-8d TOENAILS EACH END, EACH BLK.

UNCOATED REINFORCEMENT BAR LAP SPLICE (Ld) FOR NORMAL WEIGHT CONCRETE (CLASS "B" SPLICE)

LOCATION	LOCATION CONC. STEEL BAR SIZE											
	F'c	Fy	3	4	5	6	7	8	9	10	11	
	(psi)	(ksi)		"Ld"=LAP SPLICE (in)								
ТОР	3000	60	28	38	47	56	81	93	105	118	131	
OTHER	3000	60	22	29	36	43	63	72	81	91	101	
TOP	4000	60	25	33	41	49	71	81	91	102	114	
OTHER	4000	60	19	25	31	37	54	62	70	79	87	
TOP	5000	60	22	29	36	44	63	72	81	92	102	
OTHER	5000	60	17	23	28	34	49	56	63	71	78	
TOP	6000	60	20	27	33	40	58	66	74	84	93	
OTHER	6000	60	16	21	26	31	45	51	57	64	71	
TOP	7000	60	19	25	31	37	54	61	69	77	86	
OTHER	7000	60	14	19	24	28	41	47	53	60	66	

NOTES:

LAP LENGTHS SHOWN IN THE SCHEDULE ARE BASED ON CURRENTLY ADOPTED ACI-318 25.5 WITH CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db, WHERE "db" IS THE NOMINAL BAR DIAMETER. WHERE EITHER OF THESE CONDITIONS IS NOT MET, INCREASE LAP LENGTH BY 50%. CONCRETE COVER SHALL NOT BE LESS THAN REQUIRED IN THE CONCRETE SECTION OF THE GENERAL NOTES.

2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR. 3. THE SMALLER LAP SPLICE LENGTH MAY BE USED WHEN TWO BARS OF DIFFERENT

SIZES ARE TO BE LAPPED.

4. LAP SPLICE LENGTH SHALL BE INCREASED BY 34% FOR LIGHT WEIGHT CONCRETE.

<u>W.W.F. – LAP SPLICE LENGTHS</u>

UNCOATED REINFORCEMENT BAR DEVELOPMENT LENGTH (Id) FOR NORMAL WEIGHT CONCRETE

<u>12"MIN</u>

LOCATION	CONC.	STEEL		BAR SIZE								
	F'c	Fy	3	4	5	6	7	8	9	10	11	
	(psi)	(ksi)		"Id"=DEVELOPMENT_LENGTH (in)								
ТОР	3000	60	22	29	36	43	63	72	81	91	101	
OTHER	3000	60	17	22	28	33	48	55	62	70	78	
TOP	4000	60	19	25	31	37	54	62	70	79	87	
OTHER	4000	60	15	19	24	29	42	48	54	61	67	
TOP	5000	60	17	23	28	34	49	56	63	71	78	
OTHER	5000	60	13	17	22	26	38	43	48	54	60	
TOP	6000	60	16	21	26	31	45	51	57	64	71	
OTHER	6000	60	12	16	20	24	34	39	44	50	55	
ТОР	7000	60	14	19	24	28	41	47	53	60	66	
OTHER	7000	60	12	15	18	22	32	36	41	46	51	

NOTES

DEVELOPMENT LENGTHS SHOWN IN THE SCHEDULE ARE BASED ON CURRENTLY ADOPTED ACI-318 25.4 WITH CLEAR SPACING OF BARS BEING DEVELOPED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db, WHERE "db" IS THE NOMINAL BAR DIAMETER. WHERE EITHER OF THESE CONDITIONS IS NOT MET, INCREASE DEVELOPMENT LENGTH BY 50%. CONCRETE COVER SHALL NOT BE LESS THAN REQUIRED IN THE CONCRETE SECTION OF THE

GENERAL NOTES. . TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR. 3. DEVELOPMENT LENGTH SHALL BE INCREASED BY 34% FOR LIGHT WEIGHT CONCRETE.

#### SPECIAL INSPECTIONS

PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE 6.1 CALIFORNIA BUILDING CODE FOR THE FOLLOWING ITEMS:

- 6.1.1 PLACEMENT OF REINFORCING STEEL. 6.1.2 TAKING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.
- 6.1.3 STRUCTURAL WELDING.
- 6.1.4 STRUCTURAL STEEL MATERIAL VERIFICATION.
- 6.2 GENERAL CONTRACTOR SHALL OBTAIN SPECIAL INSPECTION FORMS FROM THE CITY. FORMS SHALL BE COMPLETED, SIGNED, AND RESUBMITTED PRIOR TO PERMIT ISSUE.
- 6.3 THE ENGINEER HAS NOT BEEN RETAINED FOR SUPERVISION OR INSPECTIONS. BUT WILL RESOLVE IN WRITING ITEMS BROUGHT TO HIS ATTENTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR VERBAL INSTRUCTIONS.

6.4 SPECIAL INSPECTION AGENCY AND ALL SPECIAL INSPECTORS SHALL BE RECOGNIZED AND APPROVED BY THE CITY BUILDING OFFICIAL AS DESCRIBED IN THE CURRENT EDITION OF THE SPECIAL INSPECTION AGENCY RECOGNITION LIST WHICH IS PUBLISHED BY THE ICC SPECIAL INSPECTION COMMITTEE.

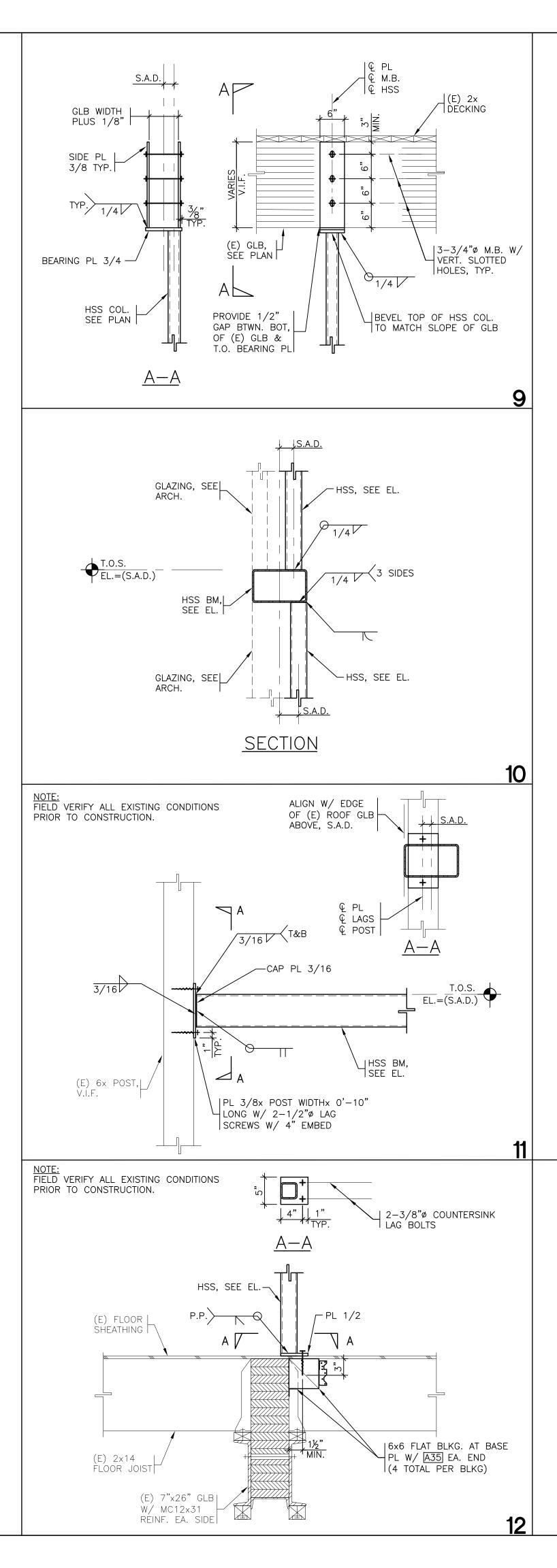
DEFERRED SUBMITTALS

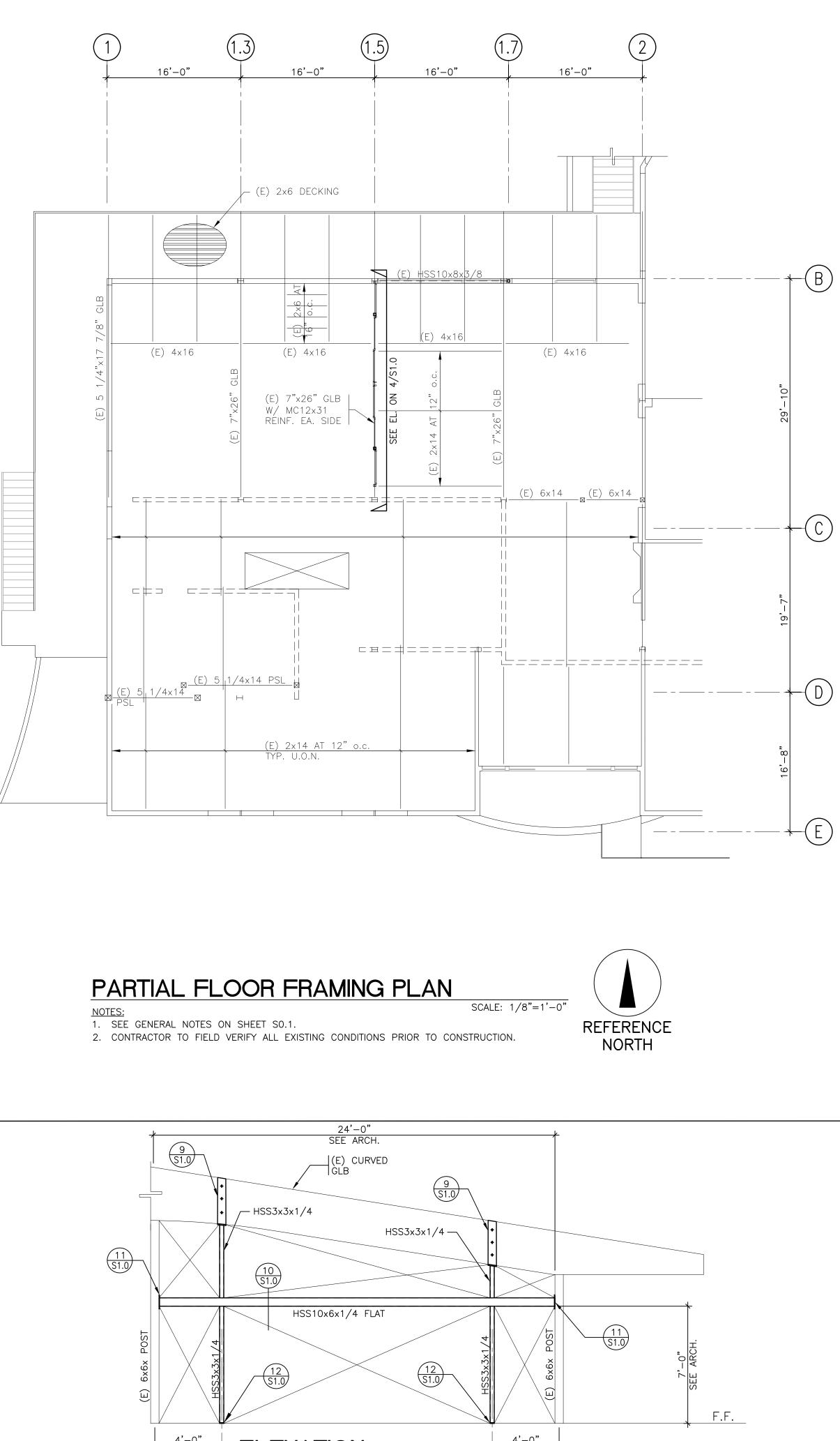
- DEFERRED SUBMITTALS REQUIRING CITY APPROVAL SHALL INCLUDE DRAWINGS AND 7.1 STRUCTURAL CALCULATIONS, SIGNED BY A LICENSED CALIFORNIA CIVIL OR STRUCTURAL ENGINEER. THE SUBMITTAL SHALL BE STAMPED BY THE PROJECT ENGINEER OF RECORD AS HAVING BEEN REVIEWED AND APPROVED PRIOR TO SUBMITTAL TO THE CITY. NO CONSTRUCTION ON DEFERRED ITEMS WILL BE ALLOWED WITHOUT HAVING BEEN APPROVED BY THE BUILDING DEPARTMENT. DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT SHALL BE AS FOLLOWS: 7.1.1 DESIGN BUILD STAIRS AND GUARDRAILS
- SHOP DRAWING SUBMITTALS
- 8.1 APPROVAL OF SHOP DRAWINGS MEANS APPROVAL OF GENERAL FABRICATION ONLY. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED, AND APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY SO INDICATED IN THE APPROVAL.
- 8.2 SHOP DRAWING SUBMITTALS SHALL BE STAMPED BY THE PROJECT ENGINEER OF RECORD AS HAVING BEEN REVIEWED/APPROVED PRIOR TO SUBMITTAL TO THE CITY (WHERE REQUIRED BY THE CITY) AND DISTRIBUTION TO THE JOB SITE. SUBMITTAL SHALL INCLUDE ONE EXTRA SET FOR ENGINEERS RECORDS. SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING:
  - 8.2.1 CONCRETE MIX DESIGN.
  - 8.2.2 CONCRETE REINFORCING. 8.2.3 STRUCTURAL STEEL AND MISCELLANEOUS IRON.
  - 8.2.4 STAIRS.

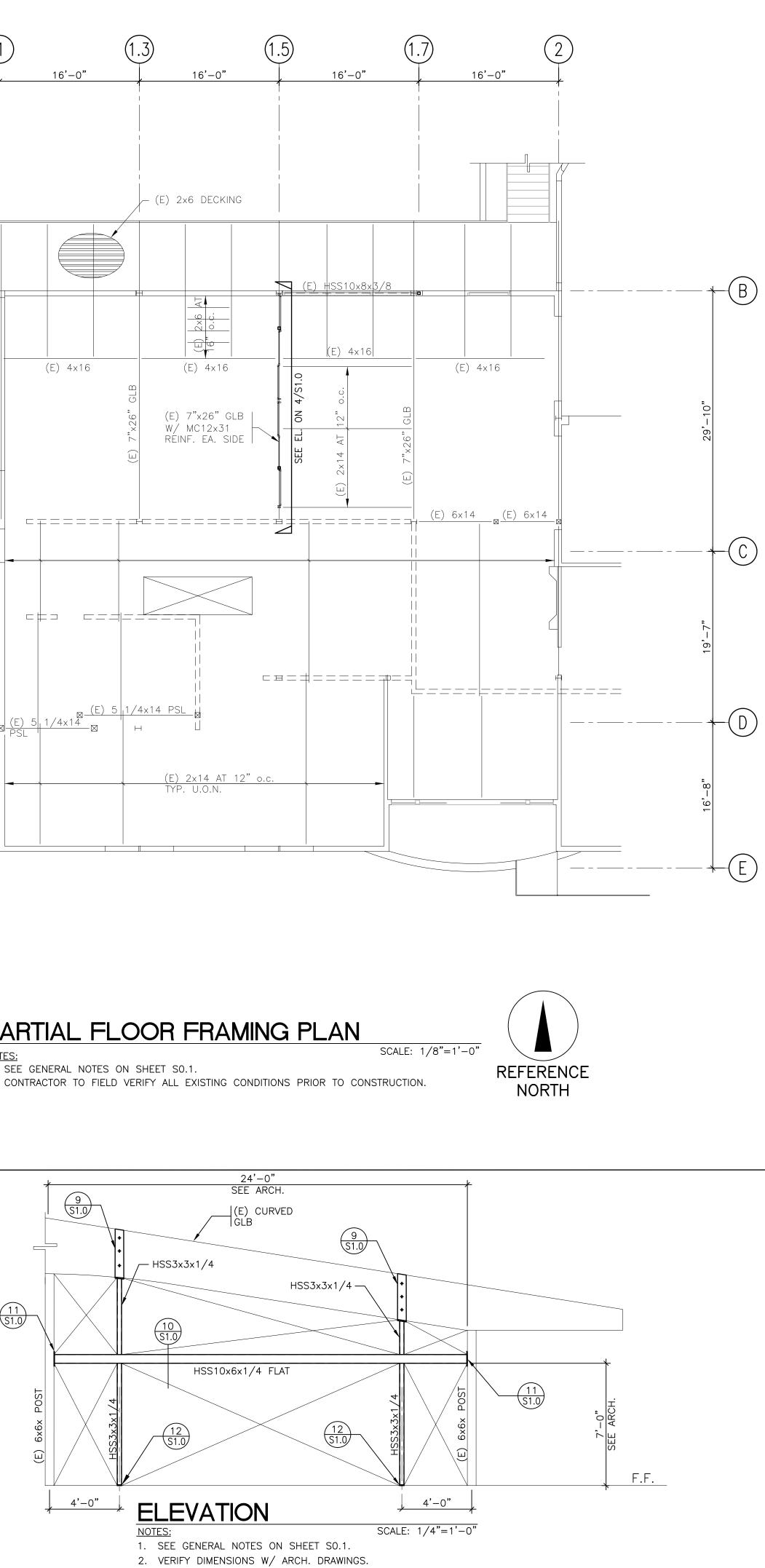


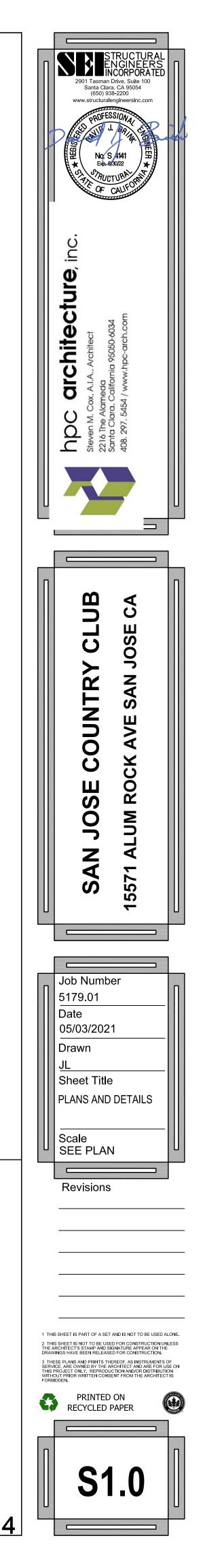
<u>SHEET</u>	<u>TITLE</u>
S0.1	GENERAL NOTES
S1.0	PLANS AND DETAILS

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	Ng       Ig         Ng       Ig         Sig       Ig         Job Number         5179.01         Date         05/03/2021         Drawn         JL         Sheet Title         GENERAL NOTES         Scale         SEE PLAN	
	Ng       Ig         LSS       LSS         Job Number       5179.01         Date       05/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       Scale	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number         5179.01         Date         05/03/2021         Drawn         JL         Sheet Title         GENERAL NOTES         Scale         SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng       Ig         Ng       Ig         Sig       Ig         Job Number       Sig         Strate       Sig         Job Number       Sig         Strate       Sig         Date       O5/03/2021         Drawn       JL         Sheet Title       GENERAL NOTES         Scale       SEE PLAN	
	Ng Egg   Site Site   Job Number Site   Site Site   O5/03/2021 Drawn   JL Sheet Title   GENERAL NOTES Scale   Stee PLAN   Revisions	
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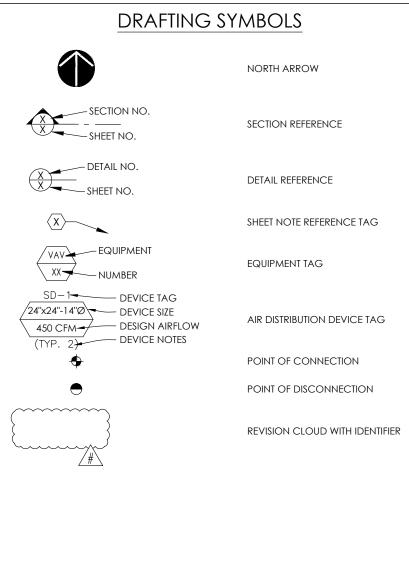






	MEASURES
	RIAL CONSERVATION AND RESOURCE EFFICIENCY
.408.1	CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR REUSE OF A MINIMUM OF 50% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH THE SECTION 5.408.1.1, 5.408.1.2, OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS GREATER.
5.408.1.	CONSTRUCTION WASTE MANAGEMENT PLAN. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL CONTAIN THE FOLLOWING INFORMATION ABOUT THE DEMOLITION AND CONSTRUCTION WASTE MATERIAL: WHERE THE WASTE WILL BE TAKEN, HOW THE AMOUNT OF WASTE WILL BE MEASURED, HOW THE WASTE WILL BE DIVERTED FROM DISPOSAL AND THE METHOD IN WHICH THE WASTE MATERIAL WILL BE SORTED.
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 LANDFILL COMPLIES WITH STANDARD 5.408.1.
5.408.1.	3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL DOES NOT EXCEED 2 LBS/SQFT OF THE BUILDING.
5.408.1.	DOCUMENTATION. DOCUMENTATION DEMONSTRATING THE COMPLIANCE OF STANDARD 5.408.1 SHALL BE PROVIDED TO THE ENFORCING AGENCY.
5.410.2	BUILDING MAINTENANCE AND OPERATION COMMISSIONING. COMMISSIONING REQUIREMENTS SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.401.2 FOR BUILDINGS 10,000 SQFT AND OVER.
5.410.2.	OWNER'S PROJECT REQUIREMENTS (OPR). THE OPR SHALL CONTAIN THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS AND SHALL INCLUDED THE ITEMS LISTED IN SECTION 5.410.2.1
5.410.2.	2 BASIS OF DESIGN (BOD). THE BOD EXPLAINS HOW THE BUILDING SYSTEM WILL MEET OPR SPECIFICATIONS AND SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.410.2.2
5.410.2.	3 COMMISSIONING PLAN. COMPLETED PRIOR TO PERMIT ISSUE. IT SHALL DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED AND INCLUDE THE ITEMS LISTED IN 5.410.1.3.
5.410.2.	4 FUNCTIONAL PERFORMANCE TESTING. DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
5.410.2.	5 DOCUMENTATION AND TRAINING. A SYSTEM MANUAL SHALL BE PROVIDED CONTAINING OPERATION ASPECTS OF THE BUILDING AND THE ITEMS LISTED IN SECTION 5.410.2.5.1. A SYSTEMS OPERATIONS TRAINING PROGRAM SHALL BE PROVIDED TO THE MAINTENANCE STAFF FOR EACH EQUIPMENT AND/OR SYSTEM AND WILL INCLUDE THE ITEMS IN SECTION 5.410.2.5.2.
5.410.2.	5 COMMISSIONING REPORT. THE COMMISSIONING REPORT SHALL CONTAIN PROCESSES OF ACTIVITIES THROUGHOUT THE DESIGN AND CONSTRUCTION PHASES.
5.410.4	TESTING AND ADJUSTING. TESTING AND ADJUSTING SHALL BE PROVIDED FOR BUILDINGS UNDER 10,000 SQFT AND NEW SYSTEMS TO SERVE IN AN ADDITION OR ALTERATION TO SECTION 303.1.
5.410.4.	2 SYSTEMS. A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. IT SHALL INCLUDE THE ITEMS LISTED IN 5.410.2.
5.410.4.	B PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS. THE HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE TO THE ENFORCING AGENCY.
5.410.4.	4 REPORTING, A FINAL REPORT OF TESTING SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5.410.4.	5 OPERATION AND MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS, AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
5.404.1.	POLLUTANT CONTROL 3 TEMPORARY VENTILATION. IF HVAC SYSTEM IS USED DURING CONSTRUCTION USE MERV 8 AIR FILTERS OR AIR FILTERS WITH AN AVERAGE OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
5.404.3	COVERING ALL DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT. ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND ROUGH INSTALLATION ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF HVAC EQUIPMENT.
5.504.4.	ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANTS, AND CAULKS SHALL FOLLOW VOC LIMITS SHOWN IN TABLE 5.504.4.2 AND 5.504.4.3, OR LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY DISTRICT RULES. AEROSOL ADHESIVES AND ADHESIVES, SEALANTS OR CAULKING WEIGHING NO MORE THAN A POUND AND DO NOT CONSIST MORE THAN 160Z SHALL COMPLY WITH VOC STANDARDS AND CALIFORNIA CODE OF REGULATIONS, TITLE 17.
5.504.4.	PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 5.504.4.4, UNLESS MORE STRINGENT LOCAL LIMITS APPLY.
5.504.5.	3 FILTERS. MERV 8 FILTERS OR BETTER MUST BE INSTALLED IN ALL MECHANICALLY VENTILATED BUILDINGS PRIOR TO OCCUPANCY.
5.505.1	INDOOR MOISTURE CONTROL INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2 SECTIONS 1203 AND CHAPTER 14.
5.506.1	UNDOOR AIR QUALITY OUTSIDE AIR DELIVERY. FOR ALL VENTILATED SPACES IN BUILDINGS, MEET THE REQUIREMENTS OF SECTION 120.1 OF THE 2016 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.
5.506.2	CARBON DIOXIDE (CO2) MONITORING. CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE 2013 CALIFORNIA ENERGY CODE, SECTION 120(C)(4).
5.508.1.	OUTDOOR AIR QUALITY CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

AAV AD AFF AFUE AL	AUTOMATIC AIR VENT ACCESS DOOR ABOVE FINISHED FLOOR ANNUAL FUEL UTILIZATION EFFICIENCY ACOUSTICAL LINER	MBH MCA MD MERV MFR MFS	THOUSAND E MINIMUM CI MOTORIZED MINIMUM EF MANUFACTU MAXIMUM FI
BDD BFP BHP BMS	BACKDRAFT DAMPER BACK FLOW PREVENTER BRAKE HORSEPOWER BUILDING MANAGEMENT SYSTEM	MIN MOCP MVD	MINIMUM MAXIMUM C MANUAL VC
BOD BOP BTU BTUH	Bottom of Duct Bottom of Pipe British Thermal Unit BTU PER Hour	(N) NC NFA NO NPLV	NEW NORMALLY ( NET FREE ARE NORMALLY ( NON-STAND)
CAP CAV CFF CFM	CAPACITY CONSTANT AIR VOLUME CAP FOR FUTURE CUBIC FEET PER MINUTE	nts Oa Oadb	NOT TO SCA OUTSIDE AIR OUTSIDE AIR
CLG CO CO	CELLING CLEAN OUT CARBON MONOXIDE	OAWB OCC	OUTSIDE AIR OCCUPIED
CO2 COP CTE	CARBON DIOXIDE COEFFICIENT OF PERFORMANCE CONNECT TO EXISTING	PD POC POU PSI	PRESSURE DR POINT OF CC POINT OF US POUNDS PER
DB DIA DN	DRY BULB DIAMETER DOWN	PSIG QTY	pounds per Quantity
DX	DIRECT EXPANSION	(RL)	RELOCATED
(E) EA EAT EER EFF	EXISTING EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EFFICIENCY	RA RAO RH RPM	Return Air Return Air ( Relative Hui Revolution
ESP EWB EWT (F)	EXTERNAL STATIC PRESSURE ENTERING WET BULB TEMPERATURE ENTERING WATER TEMPERATURE FUTURE	SA SEER SENS SM SP	SUPPLY AIR SEASONAL E SENSIBLE SHEET METAL STATIC PRESS
FC FD	FLEXIBLE CONNECTION FIRE DAMPER	SS	STAINLESS ST
FSD FF FLA	FIRE/SMOKE DAMPER FINISHED FLOOR FULL LOAD AMPS	TSP TYP	TOTAL STATIC TYPICAL
FLR FPI FPM	FLOOR FINS PER INCH FEET PER MINUTE	U.N.O. V	UNLESS NOTE
FT FT FT2	FEET SQUARE FEET	VAV VFD	VARIABLE AI VARIABLE FR
GND GPM HP	GROUND GALLONS PER MINUTE HORSEPOWER	W/ WB WC WPD	WITH WET BULB WATER COLU WATER PRESS
HR	HOUR	ZD	ZONE DAMP
IAQ ID IN IN WC IPLV	INDOOR AIR QUALITY INSIDE DIMENSIONS INCHES INCHES WATER COLUMN INTEGRATED PART LOAD VALUE		
KW KWH	KILOWATTS KILOWATT HOURS		
LAT LBS LWB LWT	LEAVING AIR TEMPERATURE POUNDS LEAVING WET BULB TEMPERATURE LEAVING WATER TEMPERATURE		
MAT MAX	MIXED AIR TEMPERATURE MAXIMUM		



#### ABBREVIATIONS

d btu per hour Circuit Amps Ed Control Damper Efficiency reporting Valu Cturer A fuse Size
A OVERCURRENT PROTECTION VOLUME DAMPER
.Y CLOSED AREA .Y OPEN NDARD PART LOAD VALUE CALE
NIP

#### IDE AIR IDE AIR DRY BULB TEMPERATURE IDE AIR WET BULB TEMPERATURE JPIED

SURE DROP T OF CONNECTION OF USE NDS PER SQUARE INCH NDS PER SQUARE INCH (GAUGE)

CATED RN AIR RN AIR OPENING TIVE HUMIDITY LUTIONS PER MINUTE

Y AIR ONAL ENERGY EFFICIENCY RATIO METAL C PRESSURE

ILESS STEEL L STATIC PRESSURE

S NOTED OTHERWISE

ABLE AIR VOLUME ABLE FREQUENCY DRIVE

R COLUMN R PRESSURE DROP (FT of H<sub>2</sub>0) E DAMPER

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ЦІ <u>SD-1</u> 500
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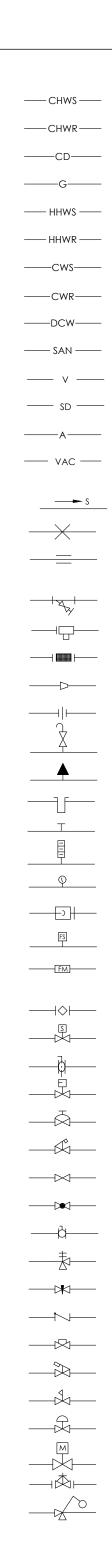
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SUPPLY AIR DIFFUSER RETURN AIR GRILLE EXHAUST AIR GRILLE DIFFUSER THROW, 3-WAY INDICATED SIDEWALL SUPPLY AIR DIFFUSER SIDEWALL RETURN AIR GRILLE REGISTER CFM **REGISTER TAG** SUPPLY DUCT RISER RETURN DUCT RISER ROUND DUCT RISER DUCT, WIDTH X DEPTH (PLAN VIEW) DUCT, DIAMETER (PLAN VIEW) - HARD SPIRAL NEW DUCT (DARK) ACOUSTICAL LINED DUCT, DIMENSIONS ARE NET INSIDE EXISTING DUCT (LIGHT) RELOCATE DUCT SUPPLY DUCT RETURN DUCT EXHAUST DUCT DEMOLITION INDICATED BY X's SQUARE TO ROUND DUCT TRANSITION RECTANGULAR DUCT ELBOW WITH TURNING VANES ROUND DUCT ELBOW RECTANGULAR DUCT ELBOW WITH FULL RADIUS TURNING VANES SINGLE INLET VAV BOX WITH SQUARE TO ROUND SINGLE INLET VAV BOX WITH HEATING COIL DOUBLE DUCT INLET VAV BOX WITH SQUARE TO ROUND VAV BOX WITH SOUND PLENUM FAN COIL UNIT MANUAL VOLUME DAMPER (MVD) MOTORIZED CONTROL DAMPER BACK DRAFT DAMPER FIRE DAMPER COMBINATION FIRE/SMOKE DAMPER ZONE DAMPER THERMOSTAT (WITH ID TAG) HUMIDITY SENSOR CARBON MONOXIDE SENSOR CARBON DIOXIDE SENSOR PRESSURE SENSOR DIFFERENTIAL PRESSURE SENSOR



## PIPING SYMBOLS

CHICHERDSWATER SUPPLY

CHICHERDRWATER RETURN CONDENSATE DRAIN (COILS) GAS (NATURAL) HEATHWAS HOT WATER SUPPLY HEATHWAR HOT WATER RETURN COCNERSER WATER SUPPLY COMPRIMER WATER RETURN DODACESSFIC COLD WATER SAISHAMARY WASTE VEN/T STOSIRM DRAIN COMPRESSED AIR

WEVTAKOUSE CLEANING VACUUM (5" HG. NOM.)

SLOPE LINE DOWN IN DIRECTION OF ARROW PIPE ANCHOR

ALIGNMENT GUIDE

STRAINER W/BLOW DOWN

BASKET STRAINER FLEX CONNECTION

PIPING REDUCER UNION

MANUAL AIR VENT

AUTOMATIC AIR VENT SENSOR WELL

PRESSURE/TEMPERATURE PORT

THERMOMETER

PRESSURE GAUGE

SUCTION DIFFUSER FLOW SWITCH

FLOW METER

PLUG VALVE

SOLENOID VALVE

BUTTERFLY VALVE TEMPERATURE CONTROL VALVE

DIAPHRAGM VALVE

QUICK CLOSE VALVE

GATE VALVE

GLOBE VALVE BALL VALVE

TEMPERATURE/PRESSURE RELIEF VALVE

NEEDLE VALVE

CHECK VALVE

BALANCE VALVE

TRIPLE DUTY VALVE (CHECK, BALANCE, ISOLATION VALVE) PRESSURE REDUCING VALVE

PNEUMATIC OPERATOR

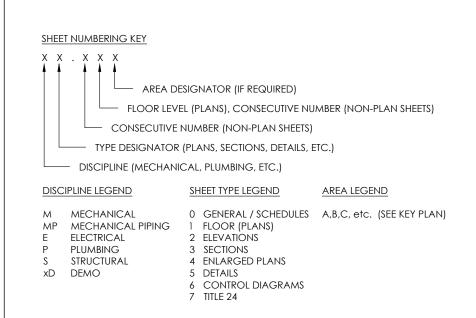
ELECTRIC MOTOR OPERATOR

OUTSIDE SCREW & YOKE GATE VALVE

FLOAT CONTROLLED VALVE



M0.01 MECHANICAL SYMBOLS & ABBREVIATIONS MAIN FLOOR MECHANICAL PLAN M1.01 M7.01 MECHANICAL TITLE 24



SCOPE OF WORK

PROVIDE NEW AIR CURTAIN FOR TENANT IMPROVEMENT OF EXISTING TWO STORY BUILDING.

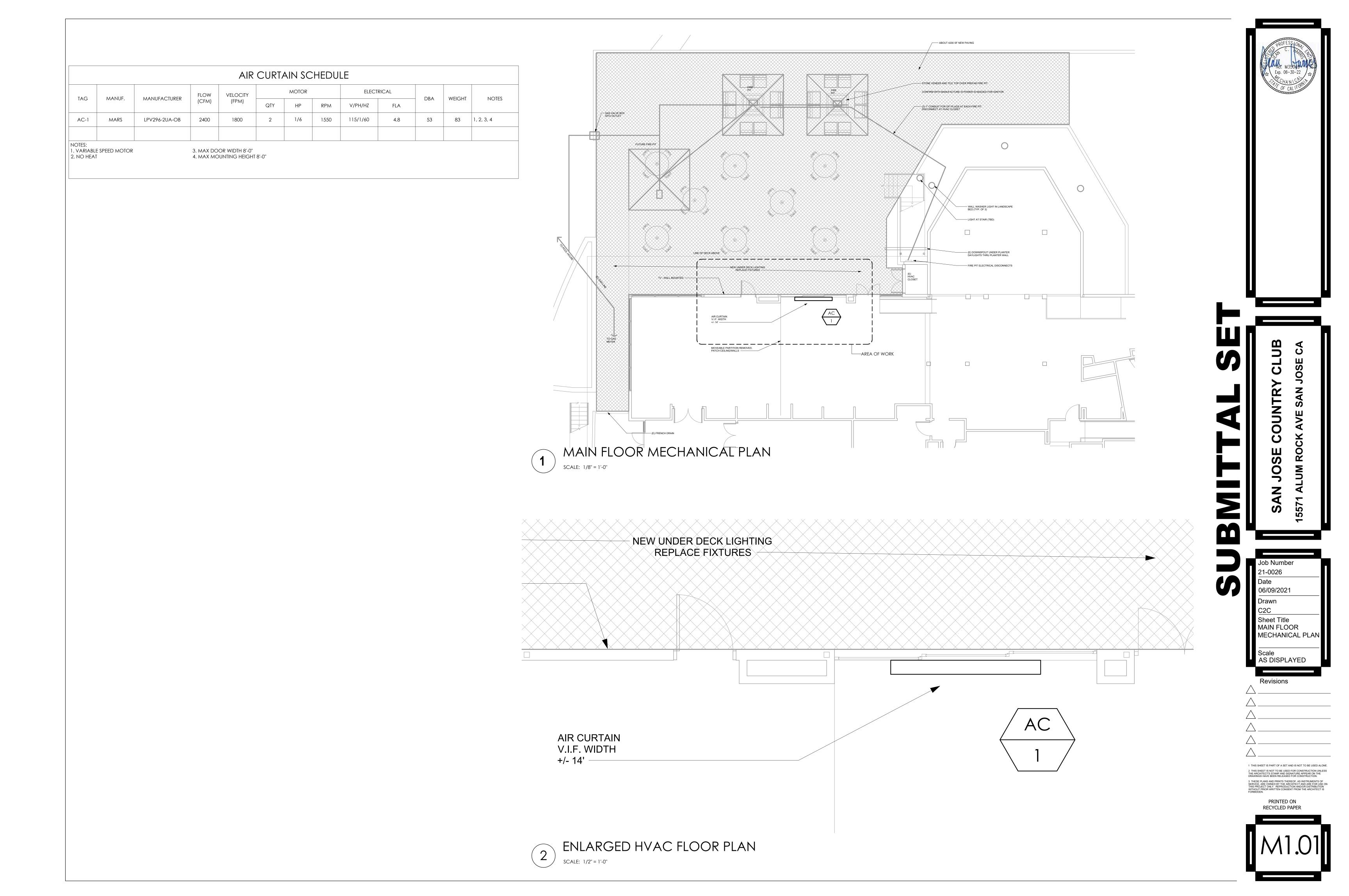
#### GENERAL NOTES

- A. ALL INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, CALIFORNIA TITLE 24, AND LOCAL MUNICIPAL CODES.
- B. ALL MATERIAL EXPOSED WITHIN THE DUCT OR PLENUM, OR APPLIED TO THE EXTERIOR OF THE DUCTS, SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50 PER CMC SECTION 602.2 AND 604
- C. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED PER CEC SECTION 110-2.
- D. ALL DUCTS SHALL BE CONSTRUCTED AND INSTALLED PER CMC SECTION 602. ALL EXPOSED DUCTS SHALL BE GALVANIZED STEEL 24 GAUGE OR THICKER. ALL FLEXIBLE DUCT IS INSULATED WIRE FLEX.
- E. FACTORY MADE AIR DUCTS, IF USED, SHALL BE LISTED CLASS 0 OR CLASS 1 AIR DUCTS.
- F. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE LISTED UL 555 1-1/2 HOUR RATED FOR USE IN 1 HOUR AND 2 HOUR PARTITIONS. INSTALLATION MANUAL FOR THE COMBINATION FIRE/SMOKE DAMPERS SHALL BE AVAILABLE IF REQUESTED BY THE CITY INSPECTOR AT THE JOB SITE. G. RETURN AIR FILTERS WITH A MERV8 VALUE SHALL USED DURING CONSTRUCTION IF THE PERMANENT
- HVAC SYSTEMS SHALL BE USED FOR VENTILATION DURING CONSTRUCTION. REPLACE THE FILTERS IMMEDIATELY PRIOR TO OCCUPANCY PER 2019 CALGREEN CODE SECTION 5.504.1.3
- H. ALL DUCT DIMENSIONS INDICATED ON DRAWINGS ARE NET CLEAR INSIDE DIMENSIONS. J. PROVIDE MANUAL DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE OUTLET OR INLET.

REQUIREMENTS.

K. ALL THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR AND COMPLY WITH ADA





Mechanical Systems			
NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE		CALIF	ORNIA ENERGY COMMISSION
Project Name: San Jose Country Club		Depart Dage	NRCC-MCH-E
Project Name: San Jose Country Club Project Address: 15571 Alum Rock Ave		Report Page: Date Prepared:	Page 7 of 8 2021-06-09
FIDJECT Address. 15571 Aldin Kock Ave		Date Flepaled.	2021-00-03
Q. MANDATORY MEASURES DOCUMENTATION LOCATI	ON		2
Table Instructions: Indicate where mandatory measures are do			ires that do not apply, mark
the plan sheet or construction document location as "N/A", an	y active cells that are left bla		
01		02	
		Plan sheet or construction docum	ent location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No		
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per <u>§110.1</u>		N/A	
Cooling Equipment Efficiency per <u>§110.1</u>		N/A	
Furnace Standby Loss Control per <u>§110.2(d)</u>		N/A	
Duct Insulation per <u>§120.4</u>		N/A	
Heating Hot Water Equipment Efficiency per <u>§110.1</u>		N/A	
Cooling Chilled and Condenser Water Equipment Efficiency pe	r <u>§110.1</u>	N/A	
Open and Closed Circuit Cooling Towers conductivity of flow-k	based controls per <u>§110.2(e)</u> 1	N/A	
Open and Closed Circuit Cooling Towers Flow Meter with anal	og output per <u>§110.2(e)3</u>	N/A	
Open and Closed Circuit Cooling Towers Overflow Alarm per §	110.2(e)4	N/A	
Open and Closed Circuit Cooling Towers Efficient Drift Elimina	tors per <u>§110.2(e)5</u>	N/A	
Pipe Insulation per <u>§120.3(b)</u>	· · · ·	N/A	
Combustion air shutoff, combustion air fan controls and stack boilers per <u>§120.9</u>	design and controls for	N/A	
Heat Pump with Supplementary Electric Resistance Heater Co	ntrols per <u>§110.2(b)</u>	N/A	
The air duct and plenum system is designed per <u>§120.4(a)-(f)</u>		N/A	
Kitchen range hoods shall be rated for sound in accordance w 62.2	ith Section 7.2 of ASHRAE	N/A	

STATE OF CALIFORNIA			
Mechanical Systems			(m)
NRCC-MCH-E (Created 09/2020)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name: San Jose Country	1	Report Page:	Page 8 of 8
Project Address: 15571 Alum Rock	Ave	Date Prepared:	2021-06-09
DOCUMENTATION AUTHOR'S D	DECLARATION STATEMENT		2
1. I certify that this Certificate of Co	ompliance documentation is accurate and complete		
Documentation Author Name:	Jéan Harris	Documentation Author Signature:	llan James
Company:	C2C Engineering	Signature Date:	6/9/21
Address:	4046 Golf Dr	CEA/ HERS Certification Identification	n (if applicable):
City/State/Zip:	San Jose, CA 95127	Phone:	(408) 770-2317
RESPONSIBLE PERSON'S DECLARA		1	
I certify the following under penal	ty of perjury, under the laws of the State of Califor	nia:	
1. The information provided on th	is Certificate of Compliance is true and correct.		
2. I am eligible under Division 3 of Compliance (responsible design	the Business and Professions Code to accept respo er)	onsibility for the building design or syst	tem design identified on this Certificate of
	mance specifications, materials, components, and I rm to the requirements of Title 24, Part 1 and Part		<b>o</b> , <b>o</b>
-	system design features identified on this Certificate		
compliance documents, worksh	eets, calculations, plans and specifications submitt	ed to the enforcement agency for app	roval with this building permit application.
· ·	igned copy of this Certificate of Compliance shall be all applicable inspections. I understand that a comp		
documentation the builder prov	vides to the building owner at occupancy.		
Responsible Designer Name:	Jéan Harris	Responsible Designer Signature:	Jan Junes
Company :	C2C Engineering	Date Signed:	6/9/21

September 2020

September 2020

Company :	C2C Engineering	Date Signed:	6/9/21
Address:	4046 Golf Dr	License:	M35049
City/State/Zip:	San Jose, CA 95127	Phone:	408) 921-7306

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

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

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	E OF COMP				NRCC-MC		
-			eport Page:		Page 4		
ject Add	ress: 1557	1 Alum Rock Ave Da	ate Prepared:		2021-0		
DECLAR	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE					
ole E. Ada	litional Ren	lections have been made based on information provided in previous tables of this docu narks. These documents must be provided to the building inspector during construction /2019_compliance_documents/Nonresidential_Documents/NRCA/		w.energy.ca.g			
YES NO		NO Form/Title Systems To Be Field Ver					
0	۲	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.					
0	۲	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zo HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	one				
0	۲	NRCA-MCH-04-A Air Distribution Duct Leakage					
0	۲	NRCA-MCH-05-A Air Economizer Controls					
0	۲	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	)3)				
0	۲	NRCA-MCH-07-A Supply Fan Variable Flow Controls					
0	۲	NRCA-MCH-08-A Valve Leakage Test					
0	۲	NRCA-MCH-09-A Supply Water Temperature Reset Controls					
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls					
0	O	NRCA-MCH-11-A Automatic Demand Shed Controls					

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

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

TE OF CALIFORNIA					
echanical Systems					( PART AND A DE ANTA
CC-MCH-E (Created 09/2020) RTIFICATE OF COMPLIANCE				CALIFORNIA E	
is document is used to demonstrate compliance for	nechanical systems that are wit	hin the scope of the permit ap	plication and are de	emonstrating cor	
escriptive path outlined in <u>§140.4</u> , or <u>§141.0(b)2</u> fo				5	, ,
oject Name: San Jose Country Club		Report Pa	ge:		Page 1 of 8
oject Address: 15571 Alum Rock Ave		Date Prep	ared:		2021-06-09
GENERAL INFORMATION					2
1 Project Location (city)	San Jose	04 Total Conditioned Floo	or Area		25,000
2 Climate Zone	4	05 Total Unconditioned F	loor Area	ł	0
3 Occupancy Types Within Project:		06 # of Stories (Habitable	Above Grade)	1	2
Office (B)	M)	Non-refrigerated Warel	nouse (S)	1	
] Hotel/ Motel Guest Rooms (R-1)	(E)	Healthcare Facility (I)			
] High-Rise Residential (R-2/R-3)	table Class Bldg (E)	✓ Other (Write In):	Dir	ning Room	
OOTNOTES: Climate zone can be determined on the	California Energy Commission's	website at <u>http://www.energy</u>	.ca.gov/maps/rene	wable/building_	climate_zones.html
PROJECT SCOPE					<b>6</b>
ble Instructions: Include any mechanical systems the	are within the scope of the new	mit application and are domo	estrating compliance	coucing the pros	criptive path outlined in
<u>40.4</u> , or <u>§141.0(b)2</u> for alterations.	, are within the scope of the per	nnt application and are demo	istruting compliant	e using the pres	criptive path outimea m
	My project consists	of (check all that apply)			
01		02		03	
Air System(s)	Wet System	o Components	[	Dry System Com	oonents
] Heating Air System	Water Economizer		Air Economize	r	
] Cooling Air System	Pumps		Electric Resista	ance Heat	
Mechanical Controls	Hydronic System Piping	·	✓ Fan Systems	·	
<sup>7</sup> Mechanical Controls (existing to remain, altered	Cooling Towers		Ductwork (exis	sting to remain, a	altered or new)
new)	Chillers		Ventilation		
	Boilers		Zonal Systems	/ Terminal Boxes	5
COMPLIANCE RESULTS				• •	<u>8</u>
ble Instructions: If any cell on this table says "DOES		· · · · · · · · · · · · · · · · · · ·		Г	
01 02 03	04 05	06	07	08	09
System Fans/	System Controls		Distribution	Cooling	
8110 1 AND Pumps AND Economizers	ND §110.2. AND Ventila	tion AND Controls AND			
<u>§140.4(k)</u> <u>§140.4(c)</u> ,	§120.2, §120	<u>.1</u> <u>§140.4(d)</u>	<u>§140.4(l)</u>	<u>§110.2(e)2</u>	Compliance Results
<u>§140.4</u>	<u>§140.4(f)</u>				
ee Table F) (See Table G) (See Table H)	(See Table I) (See Ta	ole J) (See Table K)	(See Table L)	(See Table M)	
AND AND Yes	ND AND	AND			COMPLIES
		Mandatory Measures Cor	npliance (See Table	e Q for Details)	COMPLIES
Duilding Enormy Efficiency Stor double - 2010 Name 14	Compliance http://www.ex	an any title 24/2010-ten dended			Contambas 2020
Building Energy Efficiency Standards - 2019 Nonresiden	i compliance: <u>nttp://www.energy.</u>	a.gov/titlez4/2019standards/			September 2020

STATE OF CALII <b>Mechan</b> NRCC-MCH-E (1	ical Sys	2020)		CALIFORNI	A ENERGY CON		STATE OF CALIFORN <b>Mechanical</b> NRCC-MCH-E (Create	Systems ed 09/2020)		
CERTIFICAT						NRCC-MCH-E	CERTIFICATE OF			
-		Jose Country Club 71 Alum Rock Ave	Report Page: Date Prepared:			Page 5 of 8 2021-06-09	Project Name: Project Address			
Project Auu	1635. 155	71 Aldin Rock Ave	Date Frepared.			2021-00-09				
0		NRCA-MCH-12-A FDD for Packaged Direct Expansion Units					D. EXCEPTION			
						_	This table is auto	o-filled with une	ditable comm	ents
0		NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Unit Acceptance	s				Table H indicate	s a Fan Power S	ystem Index t	nat e
		NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance					E. ADDITIONA			
0		NOTE: This form does not automatically move to "Yes". If Distributed Energy Sta					This table includ		e hy the nerm	it an
		AC Systems are included in the scope, permit applicant should move this form to	o "Yes".					es remarks maa	e by the perm	n up
		NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage	, Ice-on-							
0		Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eut					F. HVAC SYSTE		(DRY & WET	: SYS
		Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) System	s are				This Section Doe			
		included in the scope, permit applicant should move this form to "Yes".								
0	0	NRCA-MCH-16-A Supply Air Temperature Reset Controls					G. PUMPS			
							This Section Doe	es Not Apply		
0		NRCA-MCH-17-A Condenser Water Temperature Reset Controls								
							H. FAN SYSTEN			
0		NRCA-MCH-18 Energy Management Control Systems					Table Instruction		, ,	
							document the sy these requireme			
0		NRCA-MCH-19 Occupancy Sensor Controls								
-							System Name:	AC-1	Economizer	:1
0		NRCA-MCH-20 Multi-Family Ventilation					01	02		
0	0						Fan Name or			
0		NRCA-MCH-21 Multi-Family Envelope Leakage					Item Tag	Fan Fur	iction	
	1						item rug			
									·	
							AC-1	Other (Transfe	er, VAV box)	
										1

September 2020

September 2020

	al System	5			
	eated 09/2020)		CALIFORM	NIA ENERGY COM	
-	OF COMPLIAN				NRCC-MCH-E
oject Name		ountry Club	Report Page:		Page 6 of 8
oject Addre	ess: 15571 Alu	m Rock Ave	Date Prepared:		2021-06-09
DECLARA	TION OF REQ	UIRED CERTIFICATES OF VERIFICATION			?
,	HERS Providers al_Documents/	registry, but drafts can be found online at <u>https://www.energy.ca.gov/title24</u> / <u>NRCV/</u>	/2019stanaaras/2019_compliance_aocume	<u>ents/</u>	
YES	NO	Form/Title		Field In Pass	spector Fail
YES	NO	Form/Title NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater			
		NRCV-MCH-04-H Duct Leakage Test			
0	•	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater NRCV-MCH-24 Enclosure Air Leakage Worksheet			

Total System Design Supply Airflow (CFM): CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

TATE OF CALIF	ORNIA				
Mechani					
NRCC-MCH-E (C			CALIFORN	IA ENERGY COMM	
CERTIFICATE					NRCC-MCH-I
			port Page:		Page 3 of 8
Project Addr	ess: 15571	Alum Rock Ave Dat	te Prepared:		2021-06-0
	•	room economizers must meet requirements of <u>§140.9(a)</u> and will be documented on t ust be consistent for all fans within a system.	he NRCC-PRC-E document.		
I. SYSTEM (	CONTROLS				?
This Section	Does Not A <sub>l</sub>	ply			
		NDOOR AIR QUALITY			2
This Section	Does Not A <sub>l</sub>	ply			
K. TERMIN					2
This Section	Does Not A <sub>l</sub>	ply			
		CTWORK AND PIPING)			?
This Section	•	· · · · · · · · · · · · · · · · · · ·			<b>_</b>
This Section	DUES NUL A	μγ			
M. COOLIN	<b>G TOWERS</b>				?
This Section	Does Not A	ply			
N. DECLAR	ATION OF F	REQUIRED CERTIFICATES OF INSTALLATION			?
Table E. Add	itional Remo	tions have been made based on information provided in previous tables of this docum arks. These documents must be provided to the building inspector during construction 019_compliance_documents/Nonresidential_Documents/NRCI/			
YES	NO	Form/Title	Systems To Be Field Verified	Field Ins	spector
TES	NU	Form/ nue	Systems to be rield verified	Pass	Fail
۲		NRCI-MCH-01-E - Must be submitted for all buildings.			
				I	

STATE OF CALI					
	ical Syste				
-	Created 09/202		CALIFORN	IA ENERGY COMM	
	E OF COMPL		aport Dago		NRCC-MCH-
-			port Page: hte Prepared:		Page 3 of 2021-06-0
FIOJECT AUD	11655. 15571				2021-00-0
		room economizers must meet requirements of <u>\$140.9(a)</u> and will be documented on a sust be consistent for all fans within a system.	the NRCC-PRC-E document.		
I. SYSTEM	CONTROLS				?
This Sectior	n Does Not A	pply			
J. VENTILA	TION AND	INDOOR AIR QUALITY			?
This Sectior	n Does Not A	pply			
K. TERMIN	NAL BOX CO	NTROLS			?
This Sectior	n Does Not A	oply			
L. DISTRIB	UTION (DU	CTWORK AND PIPING)			?
This Sectior	n Does Not A	oply			
M. COOLII		5			?
This Sectior	n Does Not A	pply			
N. DECLAR	RATION OF	REQUIRED CERTIFICATES OF INSTALLATION			?
Table Instru Table E. Ad	uctions: Selec ditional Rem	tions have been made based on information provided in previous tables of this docurr arks. These documents must be provided to the building inspector during construction 2019_compliance_documents/Nonresidential_Documents/NRCI/			in why in
YES	NO	Form/Title	Systems To Be Field Verified	Field In:	spector
			,	Pass	Fail
۲		NRCI-MCH-01-E - Must be submitted for all buildings.			

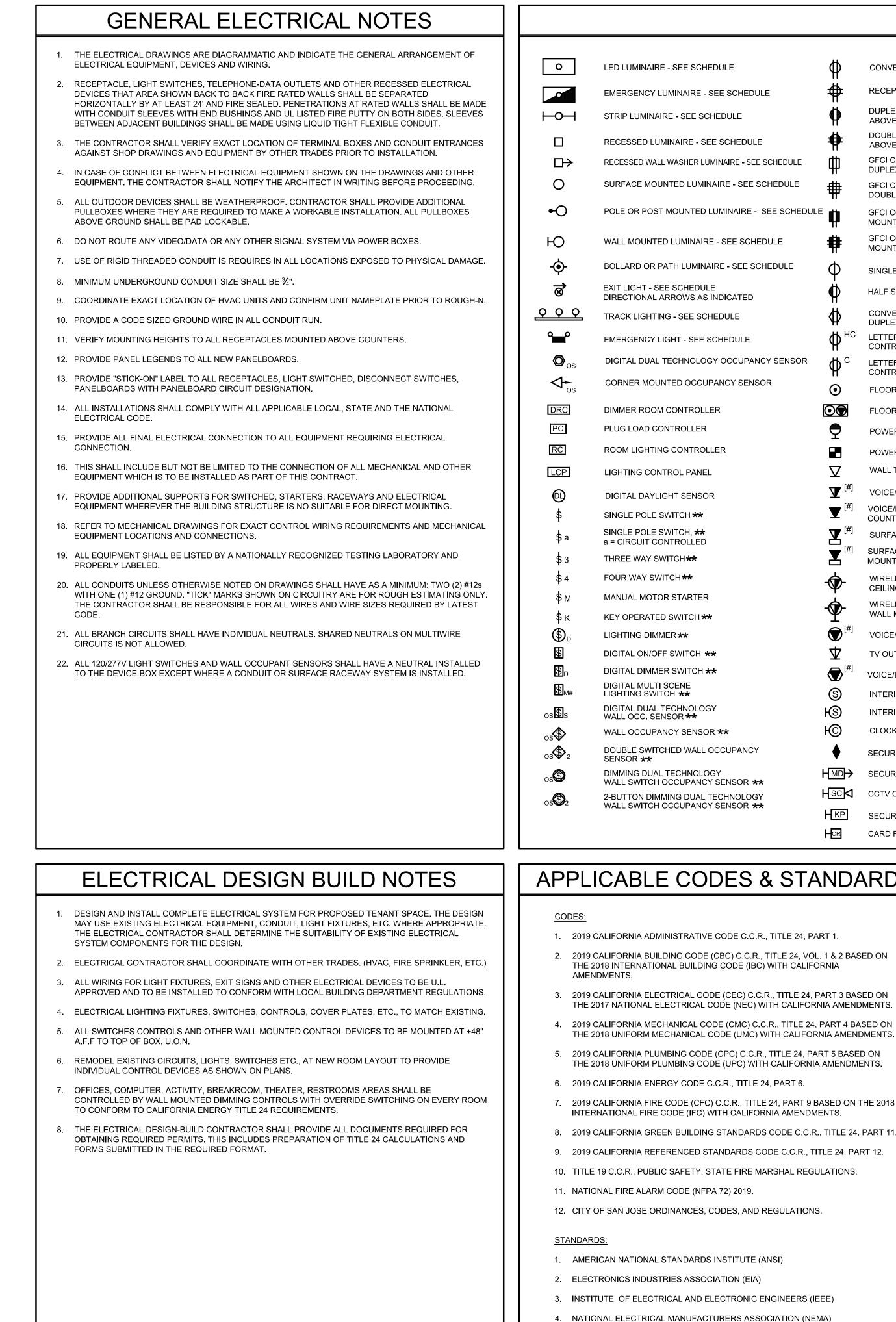
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

September 2020

2020)							c	ALIFORNIA ENERGY COMMISSION
PLIANCE								NRCC-MCH-
Jose Country Club					Report Page	e:		Page 2 of
71 Alum Rock Ave					Date Prepa	red:		2021-06-0
NDITIONS								2
l with uneditable com	ients becaus	se of selections mad	le or data entere	ed in tables	throughout the	e form.		
n Power System Index	that exceeds	s the maximum allo <sup>,</sup>	wed per §140.4	c). Please r	evise to demor	strate compliance		
/IARKS								?
marks made by the peri	nit applicant	to the Authority Ho	aving Jurisdiction	า.				
			· · ·				-	
JMMARY (DRY & WE	ISYSTEMS	<i>i</i> )						2
Apply								
								2
Apply								
AIR ECONOMIZERS	the for fam	watawa ta dawa nat	wata aawaliawaa	ith aross	vintino vonuirov	a anto formal in \$14	0 4(a)	£140.4(a) and £140.4(m). First
								<u>§140.4(e)</u> and <u>§140.4(m)</u> . First y process loads are exempt from
nd do not need to be in				,,		,,	<b>.</b>	,
AC-1 Economize	r:1 NA		Economiz					
AC-1  ECONOMIZE		≤ 54 kBtu/h coolins	σ	er		System Fan	1	Variable Air Volume
		: ≤ 54 kBtu/h coolinູ	<sup>g</sup> Controls:			Type:		Variable Air Volume
02	03	04	<b>Controls:</b> 05	06		<b>Type:</b>		08
		04 Maximum Design	<b>Controls:</b> 05	06 Design	Fan	<b>Type:</b>		
02	03	04	Controls: 05	06		<b>Type:</b>	rop Adj	08
02	03	04 Maximum Design Supply Airflow	Gontrols:	06 Design		07 Power Pressure Dr	rop Adj	08 justment - <u>Table 140.4-B</u>
02 Fan Function	03	04 Maximum Design Supply Airflow	Controls: 05	06 Design	D	Type: 07 Power Pressure Dr evice	rop Adj	08 justment - <u>Table 140.4-B</u>
02 Fan Function	Qty	04 Maximum Design Supply Airflow (CFM)	General Controls:	06 Design HP	D	07 Power Pressure Dr	rop Adj	08 justment - <u>Table 140.4-B</u>
02 Fan Function	Qty	04 Maximum Design Supply Airflow (CFM)	General Controls:	06 Design HP	D	Type: 07 Power Pressure Dr evice	rop Adj	08 justment - <u>Table 140.4-B</u>
02	03 Qty 2	04 Maximum Design Supply Airflow (CFM) 1,200	General Controls:	06 Design HP 0.167	D	Type: 07 Power Pressure Dr evice iustment (in H <sub>2</sub> O)	rop Adj	08 justment - <u>Table 140.4-B</u>

SMITTAL SET	SAN JOSE COUNTRY CLUB 15571 ALUM ROCK AVE SAN JOSE CA
	Job Number 21-0026 Date 06/09/2021 Drawn C2C Sheet Title MAIN FLOOR MECHANICAL PLAN Scale AS DISPLAYED
2 TH THE DRA 3 TH SER THIS WITT	IIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. IIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. IIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLESS ARCHITECT'S STAMP AND SIGNATURE APPEAR ON THE WINGS HAVE BEEN RELEASED FOR CONSTRUCTION. IESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS OF VICE, ARE OWNED BY THE ARCHITECT AND ARE FOR USE ON PROJECT ONLY. REPRODUCTION AND/RD DISTRIBUTION HOUT PRIOR WRITTEN CONSENT FROM THE ARCHITECT IS BIDDEN. PRINTED ON RECYCLED PAPER
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September 2020



				YMBOLS & ABBREVIAT							PER ELEC
	ж										H Q C10
D LUMINAIRE - SEE SCHEDULE	Ψ	CONVENIENCE RECEPTACLE - DUPLEX *		PANELBOARD - FLUSH MOUNTED EQUIPMENT PANEL - FLUSH MOUNTED	REFE	RENCE SHEET NOTE REFERENCE S					Lic 85104
IERGENCY LUMINAIRE - SEE SCHEDULE	₽	RECEPTACLE DOUBLE DUPLEX *		PANELBOARD - SURFACE MOUNTED	<u>2</u>	SEE ASSOCIATED NOTE ON				ON SAME DETAIL	
RIP LUMINAIRE - SEE SCHEDULE	Ф	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	2222	EQUIPMENT PANEL - SURFACE MOUNTED	$\wedge$		CE SYMBOL	FEEDER DES	IGNATION <sup>.</sup>		·····
CESSED LUMINAIRE - SEE SCHEDULE	<b>.</b>	DOUBLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	$\{-M\}$	METER W/ CURRENT TRANSFORMER	$\sqrt{3}$	SEE ASSOCIATED NOTE ON	SAME SHE	ET F301 SEE ASSOCIA	ATED NOTE C	ON SAME DETAIL	LIAL 1526 7627
CESSED WALL WASHER LUMINAIRE - SEE SCHEDULE	ф	GFCI CONVENIENCE RECEPTACLE - DUPLEX <b>*</b>	@/Ю	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES		DETAIL NUMBER			NE OUTLETS		JDUSTF 408/371-
RFACE MOUNTED LUMINAIRE - SEE SCHEDULE		GFCI CONVENIENCE RECEPTACLE - DOUBLE DUPLEX ★	Ń	MOTOR CONNECTION	Ŭ			INDICATES DATA OUT	S QUANTITY ( LETS	OF	TAL • IN JILD Tel Fax
LE OR POST MOUNTED LUMINAIRE - SEE SCHED	اا جنہ ⊫∃	GFCI CONVENIENCE DUPLEX RECEPTACLE	Ľ	NON-FUSED DISCONNECT SWITCH	ABBF	REVIATIONS					BN-BU BN-BU
		MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	ď	FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT	A AFF	AMPERE ABOVE FINISHED FLOOR	GFCI GFI	GROUND FAULT	OAH OC	OVERALL HEIGHT ON CENTER	DESIC DESIC DESIC 39 008 SEI Proje
ALL MOUNTED LUMINAIRE - SEE SCHEDULE	<b>#</b>	GFCI CONVENIENCE DOUBLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		MFGR'S NAMEPLATE DATA COMBINATION STARTER/FUSED DISCONNECT SWITCH;	ALUM/AI ARCH AWG	ALUMINUM ARCHITECT AMERICAN WIRE	GND, G GRS	GROUND GALVANIZED RIGID STEEL	OH PA	OVERHEAD PUBLIC ADDRESS	ERCIAL Fence Wa I, CA 950
LLARD OR PATH LUMINAIRE - SEE SCHEDULE	φ	SINGLE RECEPTACLE *	<b>⊠</b>	FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA	BKR	GAUGE BREAKER	HT IC	HEIGHT INTERCOM	PB PF PH	PULL BOX POWER FACTOR PHASE	COMM 1093 Flo Campbel Lic #C10
IT LIGHT - SEE SCHEDULE RECTIONAL ARROWS AS INDICATED	φ́	HALF SWITCHED RECEPTACLE - DUPLEX $\star$	$\boxtimes$	MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	C CATV CB	CONDUIT CABLE TV CIRCUIT BREAKER	IDF INCAND	INTERMEDIATE DISTRIBUTION FRAME INCANDESCENT	PIR PNL PV	PASSIVE INFRARED PANEL PHOTOVOLTAIC	
ACK LIGHTING - SEE SCHEDULE	$\Phi$	CONVENIENCE RECEPTACLE - DUPLEX CEILING MOUNTED		NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	CCTV CKT	CLOSED CIRCUIT TV CIRCUIT	JB KV	JUNCTION BOX KILOVOLT	PV PVC	PHOTOVOLTAIC POLYVINYL CHLORIDE	
IERGENCY LIGHT - SEE SCHEDULE	Фнс	LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE ★	<b>●</b> – ı·	GROUND ROD WITH GROUNDWELL BOX	CL CLG	CENTER LINE CEILING	KVA KW	KILOVOLT AMPERES KILOWATT	PWR (R)	POWER EXISTING TO BE REMOVED	ই
GITAL DUAL TECHNOLOGY OCCUPANCY SENSOR	ф <sup>с</sup>	LETTER INDICATES DUPLEX FULLY	• I+-	GROUND ELECTRODE	CO CTR	CONDUIT ONLY CENTER		LIGHTING CONTROL PANEL		REMOVABLE POLE T'S RECEPTACLES	E tealtr
ORNER MOUNTED OCCUPANCY SENSOR	₩ ⊙	CONTROLLED RECEPTACLE * FLOOR MOUNTED DUPLEX RECEPTACLE			D DIM DIST		LTG LV KCM	LIGHTING LOW VOLTAGE THOUSAND		REQUIRED IT'S REQUIREMENT(S) SHEET	the rise
IMER ROOM CONTROLLER		FLOOR MOUNTED BOX			DIST (E)	DISTRIBUTION EXISTING	MCA	CIRCULAR MILS MINIMUM	SLD STC	SINGLE LINE DIAGRAM SYSTEMS TERMINATION	
UG LOAD CONTROLLER		POWER OUTLET - SEE PLANS FOR NEMA TYPE*		TRANSFORMER - SEE SINGLE LINE FOR SIZE	EC (EL)	ELECTRICAL CONTRACTOR EVENING LIGHT	MDF	CIRCUIT AMPS MAIN DISTRIBUTION FRAI		CABINET SWITCH	
OM LIGHTING CONTROLLER	¥ P	POWER POLE		PULLBOX	EM EMT	EMERGENCY ELECTRICAL	MECH MH	MECHANICAL METAL HALIDE	SWBD TTB	TELEPHONE TERMINAL	
GHTING CONTROL PANEL		WALL TELEPHONE OUTLET **	$\sim$	FLEX CONDUIT WITH CONNECTION	EQUIP	METALLIC TUBING EQUIPMENT	MLO MPOE MTD	MAIN LUGS ONLY MAIN POINT OF ENTRANC MOUNTED	115	BACKBOARD TYPICAL	
	⊥ ▼ <sup>[#]</sup>		o	CONDUIT - UP	FA FACP	FIRE ALARM FIRE ALARM	MTD MTG MOCP	MOUNTED MOUNTING MAXIMUM OVER	UON UG	UNLESS OTHERWISE NOTED	
GITAL DAYLIGHT SENSOR	⊻ · · ·	VOICE/DATA WALL OUTLET <b>*</b> VOICE/DATA OUTLET MOUNTED ABOVE	o	CONDUIT - DOWN	FC	CONTROL PANEL FOOT CANDLE	(N)	CURRENT PROTECTION	V W	VOLT WATT	
	<b>▼</b> ,,, [#]	COUNTER - FIELD VERIFY HEIGHT	—— E ——	CONDUIT EMERGENCY SYSTEM	FIN FL	FINISH FLOOR	NIC	NOT IN CONTRACT	W/ WP	WITH WEATHERPROOF	
IGLE POLE SWITCH, <del>**</del> CIRCUIT CONTROLLED		SURFACE MOUNTED VOICE/DATA WALL OUTLET *	<u> </u>	LOW VOLTAGE WIRING	FLA FLUOR	FULL LOAD AMPS FLUORESCENT	(NL)	CONTRACT NIGHT LIGHT	XFMR	R TRANSFORMER	
REE WAY SWITCH <del>**</del>		MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		SURFACE METAL OR NON-METALLIC RACEWAY	(F) GC	FUTURE GENERAL CONTRACTOR	NO. NOM	NUMBER NOMINAL			
UR WAY SWITCH **	-\$-	WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED		CONDUIT - CONCEALED IN WALLS OR CEILING			NTS	NOT TO SCALE			O
NUAL MOTOR STARTER	-()-	WIRELESS ACCESS POINT (WAP) -		CONDUIT - EXISTING							
Y OPERATED SWITCH **		WALL MOUNTED - FIELD VERIFY HEIGHT		CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.							
		VOICE/DATA OUTLET - FLOOR MOUNTED	E	CAPPED OR STUB-OUT CONDUIT							Ż
GITAL ON/OFF SWITCH **		TV OUTLET *	<b>\$</b>	CONDUIT CONTINUATION							
GITAL DIMMER SWITCH ** GITAL MULTI SCENE		VOICE/DATA OUTLET - CEILING MOUNTED	#10	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH							
HTING SWITCH **	S	INTERIOR SPEAKERS CEILING MOUNTED	Ć	CROSSHATCHES INDICATE NUMBER OF #12							
LL OCC. SENSOR **	HS	INTERIOR SPEAKERS WALL MOUNTED		AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS							S III
LL OCCUPANCY SENSOR **	HC)	CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATIO	4	AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.							ĬŎ
UBLE SWITCHED WALL OCCUPANCY NSOR <b>**</b>	•	SECURITY DOOR CONTACTS		SILE UTHER THAN #12 AVVG.							
/MING DUAL TECHNOLOGY ALL SWITCH OCCUPANCY SENSOR **		SECURITY MOTION DETECTOR									
SUTTON DIMMING DUAL TECHNOLOGY	HSC⊲	CCTV CAMERA								.F. TO BOTTOM OF BOX, U.O.N.	SA I
	Нкр	SECURITY SYSTEM KEYPAD							<b>★★</b> +48" A.F.	.F. TO TOP OF BOX, U.O.N.	S S
		CARD READER								R IN BRACKETS DENOTES NUMBER LE DROPS WHEN MORE THAN (2).	

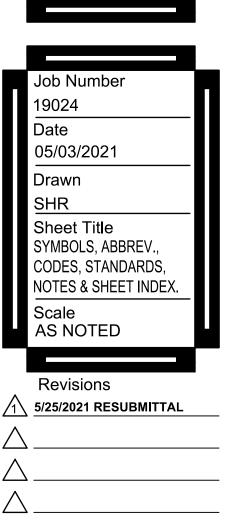
# **APPLICABLE CODES & STANDARDS**

1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1. 2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA

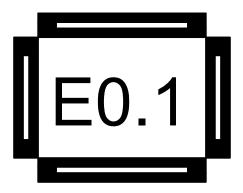
- THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS. 4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON
- 5. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 7. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 11. NATIONAL FIRE ALARM CODE (NFPA 72) 2019.
- 12. CITY OF SAN JOSE ORDINANCES, CODES, AND REGULATIONS.
- 1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

# SHEET INDEX

- E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX.
- E0.2 CALIFORNIA ENERGY COMPLIANCE TITLE 24 OUTDOOR.
- E2.1 ELECTRICAL SITE PLAN.
- E2.2 POWER PLAN LOWER FLOOR.
- E2.3 LIGHTING PLANS LOWER & MAIN FLOORS.
- E6.1 ELECTRICAL DETAILS.



1 THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. 2 THIS SHEET IS NOT TO BE USED FOR CONSTRUCT THE ARCHITECT'S STAMP AND SIGNATURE APPEAR DRAWINGS HAVE BEEN BELEASED FOR CONSTRUCT



## STATE OF CALIFORNIA Outdoor Lighting

NRCC-LTO-E (Created 01/21)									CALIFORN	IA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE										NRCC-LT
This document is used to demonstrate complia	ance with requireme	nts ir	n <u>§110.9</u> , <u>§130</u> .	. <u>0, </u> §	<u> \$130.2, \$140.7</u>	, an	d <u>§141.0(b)2L</u> for ou	ıtdo	or lighting scopes u	sing the prescriptive path
Project Name: San Jose Country Club					Rep	oort	Page:			Page 1 (
Project Address: 15571 Alum Rock Avenue, Sa	an Jose CA 95127				Dat	e P	repared:			06/10/2
A. GENERAL INFORMATION										
01 Project Location (city)	Sar	Jose	9		04 Total Illu	mir	nated Hardscape Are	ea (f	t <sup>2</sup> )	1,637
02 Climate Zone		4					•			
03 Outdoor Lighting Zone per <u>Title 24, Part</u>	1 §10-114 or as des	ignat	ed by Authorit	y Ha	aving Jurisdicti	on (	(AHJ):			
LZ-0: Very Low - Undeveloped Parkland	LZ-2: Moderate -	Rura	l Areas		LZ-4: High	- N	lust be reviewed by	CA	Energy Commission	for Approval
LZ-1: Low - Developed Parkland	✓ LZ-3: Moderately	High	n - Urban Areas	i						
B. PROJECT SCOPE										1
Table Instructions: Include any outdoor lightin outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alteratio		vithir	n the scope of t	he j	permit applica	tion	and are demonstra	ting	compliance using t	he prescriptive path
My project consists of:										
01							02			
✓ New Lighting System	Must Comp	y wit	th Allowances f	ron	n <u>§140.7</u> .					
Altered Lighting System	Is your alter	ation	n increasing the	e co	nnected lightin	ng lo	oad (Watts)?		Yes	<b>○</b> No
<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being	Altered = (Sum Tota	l of L	uminaires Bein	g A	dded or Altered	d / I	Existing Luminaires v	vith	in the Scope of the l	Permit Application) x 100
C. COMPLIANCE RESULTS										
Table Instructions: If any cell on this table says	s "DOES NOT COMP	LY" o	r "COMPLIES w	vith	Exceptional Co	ondi	tions" refer to Table	D. j	for guidance.	
Calculation of Total Allowed L	ighting Power (Wat	ts) §:	140.7 or §141.	0(b)	) <u>2L</u>				Compliance Resu	lts
01 02 03	04	Τ	05		06		07		08	09
General Hardscape Allowance §140.7(d)1Per Application §140.7(d)2Sales Frontag §140.7(d)2	ge + Ornamenta <u>§140.7(d)2</u>	+	<u>§140.7(d)2</u>	OR	<u>§141.0(b)2L</u>	=	Total Allowed (Watts)	≥	<b>Total Actual</b> (Watts)	07 Must be≥08
(See Table I) (See Table J) (See Table		.)	(See Table M)	-	(See Table N)				(See Table F)	
541.91 + +	+ 21.281	+		OR		=	563.191	≥	531.5	COMPLIES
			ompliance (Se						Not Applicable	
	Contr	ols C	ompliance (Se	e Ta	able H for Deta	ails)	CON	ЛРL	IES with Exceptiona	I Conditions

STATE OF CALIFORNIA Outdoor Lighting										<b>6</b>
NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE								CALIFORNIA E	NERGY C	OMMISSI19 NRCC-LT
Project Name: San Jose Cour	ntry Club				Report Pa	ge.				Page 4
Project Address: 15571 Alum F		CA 95127			Date Pres	-				06/10/2
		0,10012,			Baterrep					00/10/2
I. LIGHTING POWER ALLOW	/ANCE (per <u>§140.7</u> )									
Table Instructions: Please comp						01				
allowance calculations per <u>§14</u>					"	Use it or lose it'	Allowances (sel	ect all that a	apply)	
is per <u>Table 140.7-A</u> while "Use <u>Table 140.7-B</u> . Indicate which c expand sections for user input. the "Use it or lose it" allowance	✓ Ha	General ardscape lowance	Per Applicatior	Sales Frc	ontage 🖌 Or	namental	- F	Per Specific Ai		
it or lose it" allowance.			Table I	(below)	Table J	Table K	Tal	ole L		Table M
Calculated General Hardscape	Lighting Power Allow	ance per <u>Table</u>	<u>140.7-A</u> (L	Z 2 & 3)		·	·			
02	03	04		05	06	07	08	09		10
		Are	a Wattage	e Allowance (AV	NA)	Linear V	Vattage Allowand	e (LWA)		Total Gene
Area Description	Surface Type			ed Density Are	ea Allowance			Density Linear Allowance		AWA + LW
		Area (ft²)		W/ft²)	(Watts)	Length (lf)	(W/lf)	(Watt	-	(Watts)
Hardscape	Concrete	1,637		0.03	49.11	357	0.4	142.	8	191.91
						Initial Wattage	Allowance for E	ntiro Sito ()	Natte):	350
						-	Allowance for E			350
						-	Allowance for E eral Hardscape A			350 541.91
J. LIGHTING ALLOWANCE: P	PER APPLICATION					-				
J. LIGHTING ALLOWANCE: P This Section Does Not Apply	PER APPLICATION					-				
	PER APPLICATION					-				
This Section Does Not Apply						-				
						-				
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply	SALES FRONTAGE					-				
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C	SALES FRONTAGE					Total Gene	eral Hardscape A			
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C Table Instructions: Please comp	SALES FRONTAGE ORNAMENTAL plete this table for are					Total Gene	n <u>Table-140.7-B</u> .	llowance (\		541.91
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C	SALES FRONTAGE DRNAMENTAL plete this table for are 02		03	04	dscape Ornamen 05	Total Gene tal Lighting fron 06	n <u>Table-140.7-B</u> .			
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C Table Instructions: Please comp	SALES FRONTAGE DRNAMENTAL plete this table for are 02		03	04	05	Total Gene tal Lighting fron 06	n <u>Table-140.7-B</u> .	llowance (\		09
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C Table Instructions: Please comp	SALES FRONTAGE ORNAMENTAL plete this table for are 02	CALCULATED A	03 LLOWANC	04	05	Total Gene tal Lighting fron 06	n <u>Table-140.7-B</u> .	llowance (\	Watts):	09 Additiona Allowanc
This Section Does Not Apply K. LIGHTING ALLOWANCE: S This Section Does Not Apply L. LIGHTING ALLOWANCE: C Table Instructions: Please comp 01	SALES FRONTAGE ORNAMENTAL plete this table for are 02 03 04 04 04 04 04 04 04 04 04 04 04 04 04	ALCULATED A ed Area Allowe	03 LLOWANC	04 E (Watts) Extra Allowan	05 Luminaire Name or	Total Gene tal Lighting from 06 DESI Watts per	n <u>Table-140.7-B</u> . 07 GN WATTS # of	owance (\	Watts):	541.91

Table Continued

Address:

City/State/Zip:

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

TATE OF CALIFORNIA			
Outdoor Lighting			
RCC-LTO-E (Created 01/21)			CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE			NRCC-LTO-E
roject Name: San Jose Country	Club	Report Page:	Page 7 of 7
roject Address: 15571 Alum Rock	Avenue, San Jose CA 95127	Date Prepared:	06/10/2021
DOCUMENTATION AUTHOR'S I	DECLARATION STATEMENT		2
certify that this Certificate of Com	npliance documentation is accurate and complete		2
Ocumentation Author Name:	Shrader Electric, Inc.	Documentation Author Signature:	Futum
Company:	Shrader Electric, Inc.	Signature Date:	06/10/2021
Address:	1093 Florence Way	CEA/ HERS Certification Identificatio	on (if applicable):
City/State/Zip:	Campbell, CA 95008	Phone:	(408) 371-1526
RESPONSIBLE PERSON'S DECLARA certify the following under penal	TION STATEMENT Ity of perjury, under the laws of the State of Califorr	nia:	
The information provided on th	is Certificate of Compliance is true and correct.		
<ol> <li>I am eligible under Division 3 of Compliance (responsible design</li> </ol>	f the Business and Professions Code to accept respo	nsibility for the building design or sy	stem design identified on this Certificate of
		nonufactured devices for the buildin	a decian or system decian identified on this
	mance specifications, materials, components, and n orm to the requirements of Title 24, Part 1 and Part (		
•	system design features identified on this Certificate	•	
	neets, calculations, plans and specifications submitte	-	
-			ermit(s) issued for the building, and made available
	all applicable inspections. I understand that a comp	• •	
<b>U</b> 1	vides to the building owner at occupancy.		-
Responsible Designer Name:	Shrader Electric, Inc.	Responsible Designer Signature:	Toutmon
Company :	Shrader Electric, Inc.	Date Signed:	<b>d</b> 6/10/2021

License:

Phone:

1093 Florence Way

Campbell, CA 95008

C10-851049

(408) 371-1526

January 2021

# STATE OF CALIFORNIA Outdoor Lighting

ANT OF CALL

NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE Project Name: San Jose Country Club Project Address: 15571 Alum Rock Avenue, San Jose CA 95127

**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. Outdoor Lighting Controls Permit Applicant Notes:

Main Floor Entry: Motion Sensor: Exempt because luminaire with a maximum rated wattage of 40 watts each are not required to have motion sensing controls; EXCEPTION 130.2(c)3.

Report Page:

Date Prepared:

**E. ADDITIONAL REMARKS** This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

 F. OUTDOOR LIGHTING FIXTURE SCHEDULE

 Table Instructions: For new or altered lighting systems demonstrating compliance with \$140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per \$141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

 Designed Wattage:

 01
 02
 03
 04
 05
 06
 07
 08
 09
 10

01	02		00	÷.	00	00	07	00	85	-	0
Name or Item Tag	Complete Luminaire [	Description	Watts per luminaire <sup>1,2</sup>	How Wattage is determined	Total number	Luminaire Status <sup>3</sup>	Excluded per	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output	Field In:	spector
					luminaires <sup>2</sup>		<u>§140.7(a)</u>		§130.2(b) <sup>4</sup>	Pass	Fail
ХА	Flood Light LED	Linear	21	Mfr. Spec <sup>1</sup>	3	New	✓		NA: <6,200 lumens		
XBE	Wall Pack LED	Linear	17	Mfr. Spec <sup>1</sup>	1	New		17	NA: <6,200 lumens		
XC	Downlight LED	Linear	19	Mfr. Spec <sup>1</sup>	8	New		152	NA: <6,200 lumens		
XCE	Downlight LED EM	Linear	19	Mfr. Spec <sup>1</sup>	2	New		38	NA: <6,200 lumens		
XD	Cylinder LED	Linear	14	Mfr. Spec <sup>1</sup>	4	New		56	NA: <6,200 lumens		
XF	String Lights	Linear	96	Mfr. Spec <sup>1</sup>	2	New		192	NA: <6,200 lumens		
XG	Tape Light LED	🗌 Linear	76.5	Mfr. Spec <sup>1</sup>	1	New		76.5	NA: <6,200 lumens		
						Total Desig	ned Watts:	531.5			

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. *EX: Luminaire is lighting a statue; EXCEPTION 2 to <u>§130.2(b)</u>. Table Continued* 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <u>http://www.energy.ca.gov/title24/2019standards</u>								January 2021
STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 01/21)						(	CALIFORNIA ENERGY C	OMMISSI19
CERTIFICATE OF COMPLIANCE								NRCC-LTO-E
Project Name: San Jose Country Club				Report Pag	ge:			Page 5 of 7
Project Address: 15571 Alum Rock Avenu	e, San Jose CA 951	.27		Date Prep	ared:			06/10/2021
01	02	03	04	05	06	07	08	09
	CALCULA	ATED ALLOWANCI	E (Watts)		DESIG	N WATTS		Additional
Area Description	Illuminated Area (ft <sup>2</sup> )	Allowed Density (W/ft <sup>2</sup> )	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire <sup>1,2</sup>	# of Luminaires <sup>2</sup>	Design Watts	Allowance (Watts)

<sup>1</sup> FOOTNOTES: Luminaires qualifying for this allowance shall be rated < 100W and shall be post-top luminaires, lanterns, pendants or chandeliers. <sup>2</sup> For luminaires indicated in Table F as linear, wattage in column 06 is W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 07 instead of number of luminaires.

This Section Does Not Apply						
This Section	I DOES NOL I					
N. EXISTIN		IONS POWER ALLOWANCE (alterations only)		(		
This Section Does Not Apply						
O. DECLAR	RATION OF	REQUIRED CERTIFICATES OF INSTALLATION		2		
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <a href="https://www.energy.ca.gov">https://www.energy.ca.gov</a> Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <a href="https://www.energy.ca.gov">https://www.energy.ca.gov</a> title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/						
Table E. Add	ditional Ren	narks. These documents must be provided to the building inspector during construction and can be found online at https://www.e				
Table E. Add title24/2019	ditional Ren 9standards/	narks. These documents must be provided to the building inspector during construction and can be found online at <u>https://www.e</u> /2019_compliance_documents/Nonresidential_Documents/NRCI/	nergy.ca.gov	-		
Table E. Add	ditional Ren	narks. These documents must be provided to the building inspector during construction and can be found online at https://www.e	nergy.ca.gov			
Table E. Add itle24/2019	ditional Ren 9standards/	narks. These documents must be provided to the building inspector during construction and can be found online at <u>https://www.e</u> /2019_compliance_documents/Nonresidential_Documents/NRCI/	Field In	spector		

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

January 2021

Total Allowance (Watts) Ornamental: 21.281

## STATE OF CALIFORNIA Outdoor Lighting

CALIFORNIA ENERGY COMMISSI19

NRCC-LTO-E

Page 2 of 7

06/10/2021

NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE Project Name: San Jose Country Project Address: 15571 Alum Rock

<u>,</u>							
01 02							
Name or Item Tag							
FOOTNOTES: Authority Having							
<sup>2</sup> For linear luminaires, wattage							

luminaires. <sup>3</sup> Select "New" for new luminaires in "Existing to Remain" for existing lum being removed and reinstalled as p <sup>4</sup> Compliance with mandatory cutor **G. CUTOFF REQUIREMENTS (BL** This Section Does Not Apply

H. OUTDOOR LIGHTING CONTR Table Instructions: Complete this to alteration projects, luminaires whice even if they are within the spaces c When an option having a \* is select show "DOES NOT COMPLY" if the n dropdown list to indicate not applie Mandatory Controls 01

Area Description

Main Floor Entry \*NOTES: Controls with a \* require a EX: Not permitted by health & safet Main Floor Entry

\_\_\_\_\_

CA Building Energy Efficiency Standard

STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE Project Name: San Jose Country

 Project Address:
 15571 Alum Rock

 P. DECLARATION OF REQUIRED

 Table Instructions:
 Selections have

 Table E. Additional Remarks.
 These

 Certification Provider (ATTCP).
 For

 YES
 NO

 O
 NRCA-LTCD

 Iuminaire
 NRCA-LTCD

C

							CALIFORNIA ENERGY CC	MMISSI19	
									C-LTO-E
ntry Club				Report Page:				Pag	e 3 of 7
lock Aven	ue, San Jose CA 9512	7		Date Prepared:				06/	10/2021
			05	0.5	07	00			
	03	04	05	06	07	08	09	1	0
re Descriț	btion Watts per luminaire <sup>1,2</sup>	How Wattage is determined	Total number luminaires²	Luminaire Status <sup>3</sup>	Excluded per <u>§140.7(a)</u>	Design Watts	Cutoff Req. ≥ 6,200 initial lumer output <u>§130.2(b)</u> <sup>4</sup>	Field In Pass	spector Fail
e should b res in a ne g luminai as part of	e indicated as W/lf in w outdoor lighting p res within the project the project scope	stead of Watts/lui roject or for added scope that are no	minaire. Tota l luminaires in t being altered	age used for complian I linear feet for the lur an alteration. Select d and are remaining.	minaire sho "Altered" fi Select "Exis	uld be indicated or replacement ting Reinstalled	luminaires in an alt	eration.	Select
	uirements is required	jor luminaires with	n mitiai iumer	output ≥ 6,200 unles	s exempled	<i>by <u>9130.2(b)</u>.</i>			6
(BUG)									?
NTROLS									?
elected, th he notes d		is table must be co		lighting controls secti ough 04, do not leave					
	02			03		04		05	
	Shut-Of §130.2(c			to-Schedule 130.2(c)2		Motion Sens §130.2(c)3		ield Inspe	
							<u> </u>	ass	Fail
	Astronomica			Yes		Exempt *			
safety to k N	e in the space below e oe turned off; EXCEPT Notion Sensor: Exemp ontrols; EXCEPTION 1	<i>ION 1 to <u>§130.2(c)</u></i> t because luminai		hieved. imum rated wattage o	of 40 watts	each are not reo	quired to have mot	ion sensi	ng
dards - 201	9 Nonresidential Comp	liance: <u>http://www.</u> e	energy.ca.gov/1	itle 24/2019 standards			CALIFORNIA ENERGY CC		iry 2021
									C-LTO-E
ntry Club				Report Page:					e 6 of 7
lock Aven	ue, San Jose CA 9512	7		Date Prepared:					10/2021

ED CERTIFICATES OF ACCEPTANCE				
ave been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why ir nese documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technicia				
For more information visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u>				
Form/Title	Field In:	spector		
romy nde	Pass	Fail		
LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 aires.				

ER ELEC GN ★ BU C10 Lic 851049 C10 Lic 851049 C10 Lic 851049	
COMMERCIAL - RESIDENTIAL - INDUSTRIAL DESIGN- BUILD 1093 Florence Way Tel 408/371-1526 Campbell, CA 95008 Fax 408/371-1526 Lic #C10-851049 Fax 408/371-7627 Lic #C10-851049 SEI Project No. 8246P2 ACEMB Project No. 21-288.00 All deas. a rangements and base indicated or rangement at a the program of the arrangement of a start program of short deal and developed to use or and no more short barrene or visitor index and what change a the program or short deal and program and an the program or short deal and developed to use or and no more short barrene or write of the and program what change a the program or short deal and program and a the program or short deal and developed to use or consider on the or short deal and program what are short bar we provide the and resonance of the program of an and a short bar and no more short deal and and program	or inspections from the dimensions and conditions shown by these drawings.
CON Since 1972 Since 1972 Control 1003 Camp Lic # Alloas. Alloas.	di any vario
RY CLUB N JOSE CA	
SAN JOSE COUNTRY CLUB 15571 ALUM ROCK AVE SAN JOSE CA	
155 155	
Job Number 19024 Date 05/03/2021 Drawn SHR Sheet Title CALIFORNIA ENERGY COMPLIANCE TITLE 24 - OUTDOOR Scale	
Sheet Title COMPLIANCE TITLE 24 - OUTDOOR Scale AS NOTED	

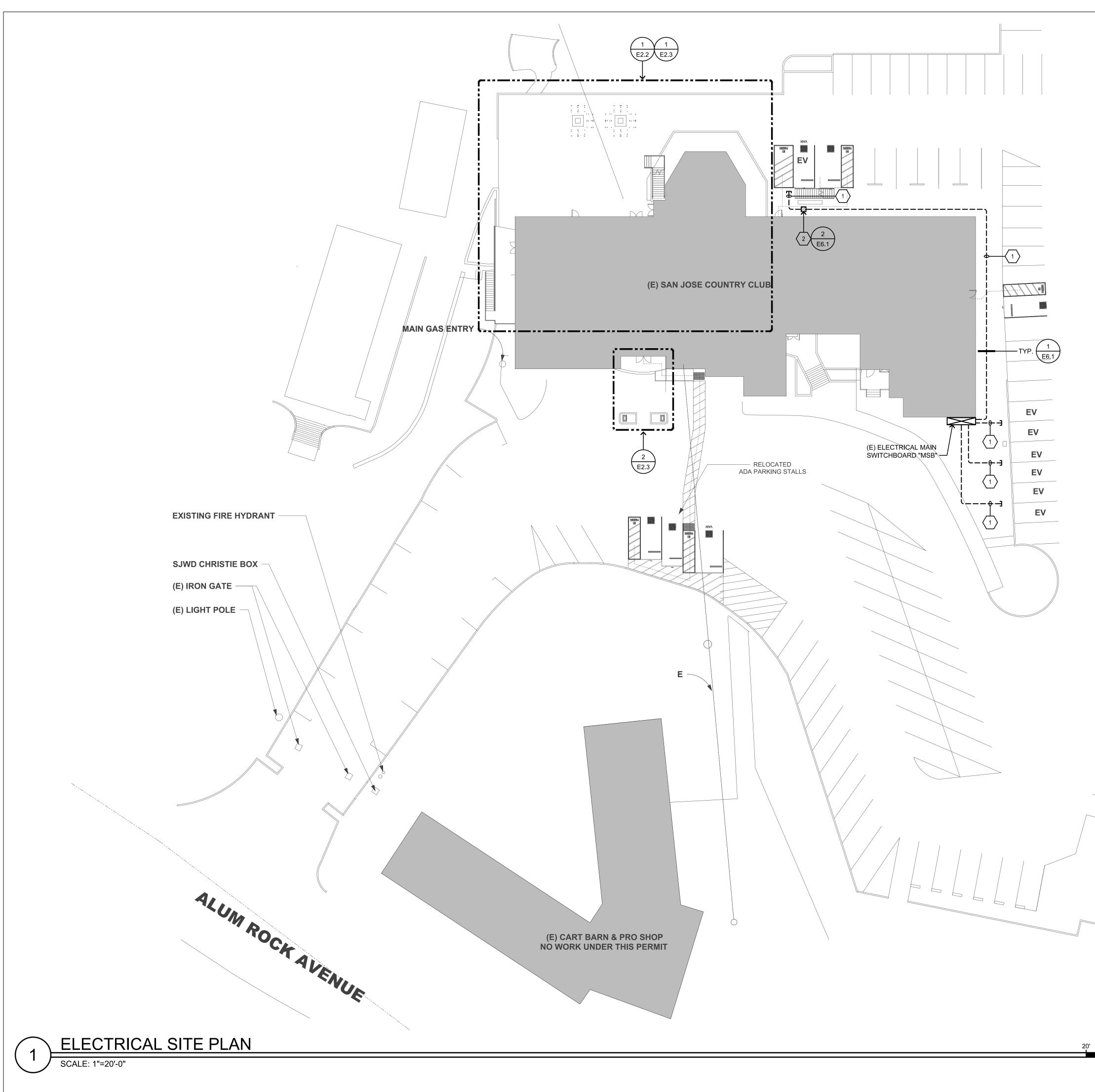
2 THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLESS THE ARCHITECTS STAMP AND SIGNATURE APPEAR ON THE DRAWINGS HAVE BEEN RELEASED FOR CONSTRUCTION. 3 THESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS OF SERVICE, ARE OWNED BY THE ARCHITECT AND ARE FOR USE ON THIS PROJECT ONLY. REPRODUCTION AND/OR DISTRIBUTION WITHOUT PRIOR WRITTEN CONSENT FROM THE ARCHITECT IS FORBIDDEN.

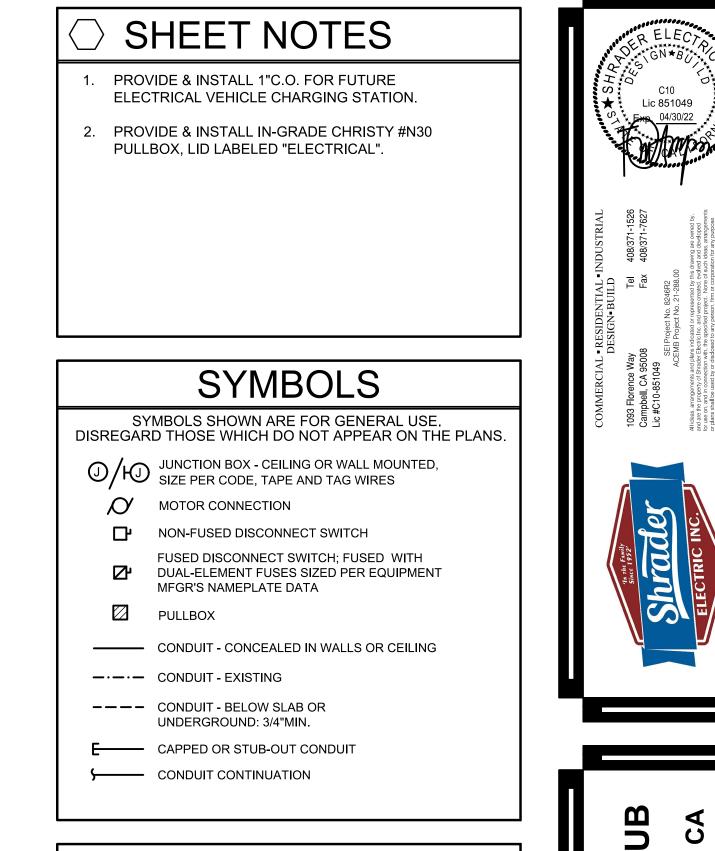
1 THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE.



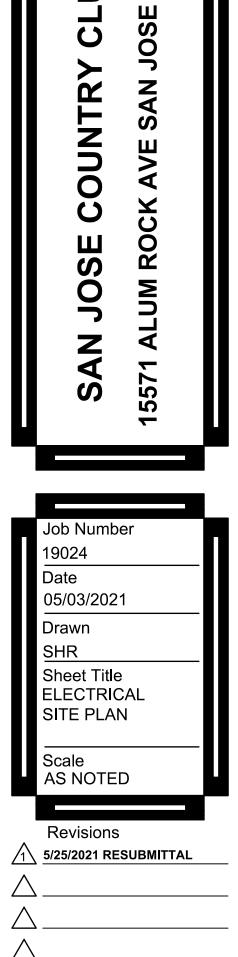
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2021





BRANCH CIF	CUIT CONDU	JCTOR SIZING TABLE
CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2#8 & 1#10 GND.
TABLE ABOVE AS D	ETERMINED BY THE	RCUIT CONDUCTORS PER THE E CIRCUIT CONDUCTOR LENGTH ) #12 AWG WITHIN TERMINATION ESSARY.





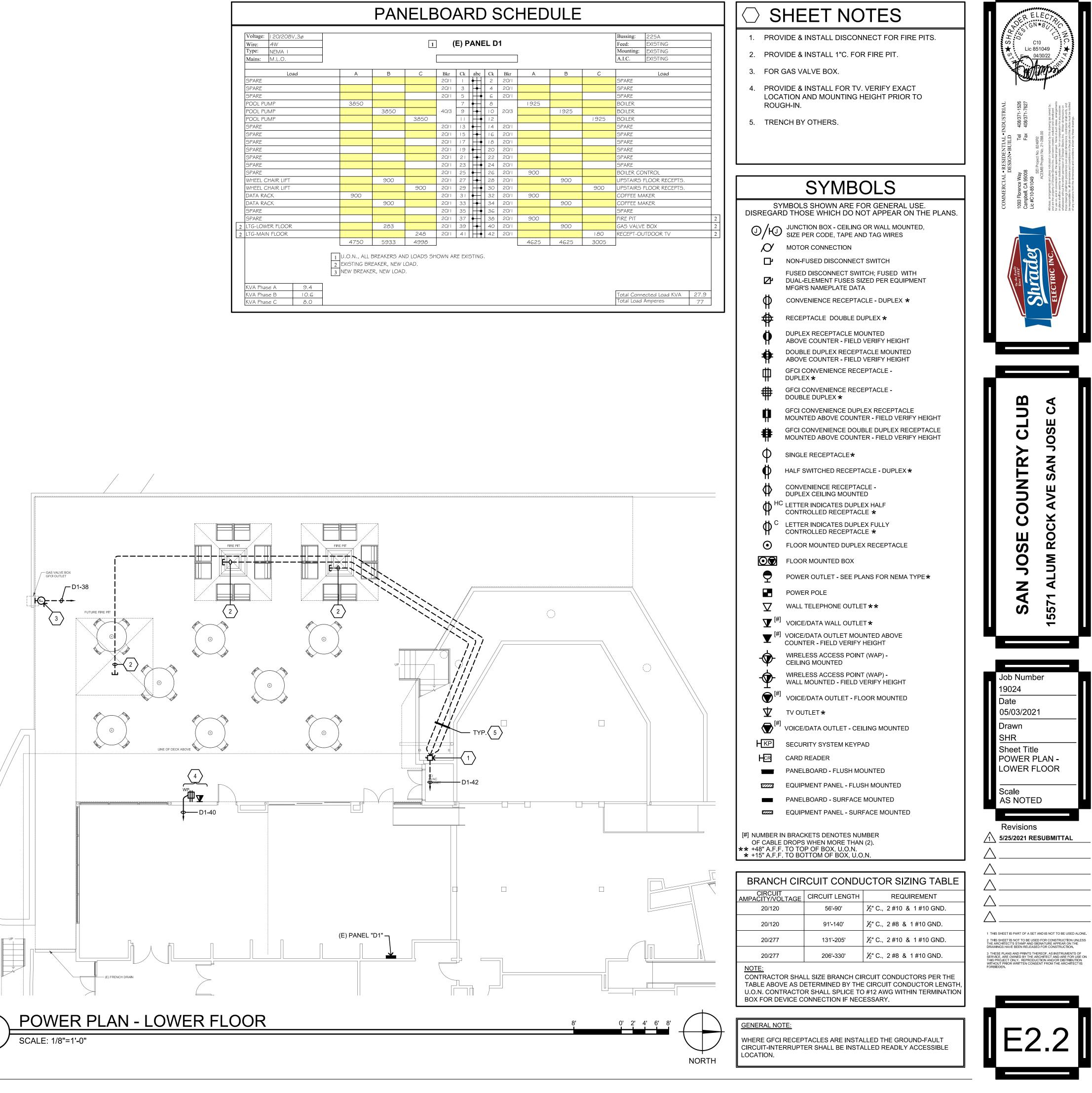
1 THIS SHEET IS PART OF A SET AND IS NOT TO BE USED ALONE. 2 THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLES THE ARCHITECT'S STAMP AND SIGNATURE APPEAR ON THE DRAWINGS HAVE BEEN RELEASED FOR CONSTRUCTION.

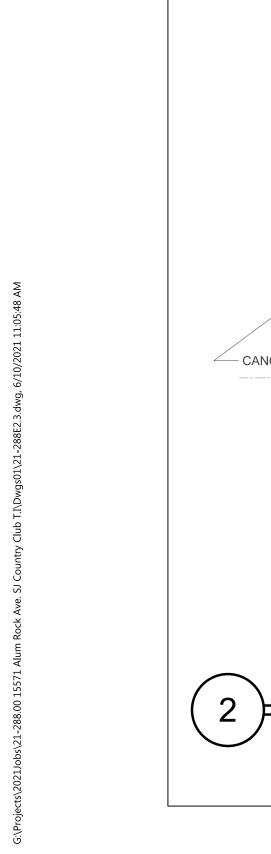
3 THESE PLANS AND PRINTS THEREOF, AS INSTRUMENTS O SERVICE, ARE OWNED BY THE ARCHITECT AND ARE FOR US THIS PROJECT ONLY. REPRODUCTION AND/OR DISTRIBUTIO WITHOUT\_PRIOR WRITTEN CONSENT FROM THE ARCHITECT

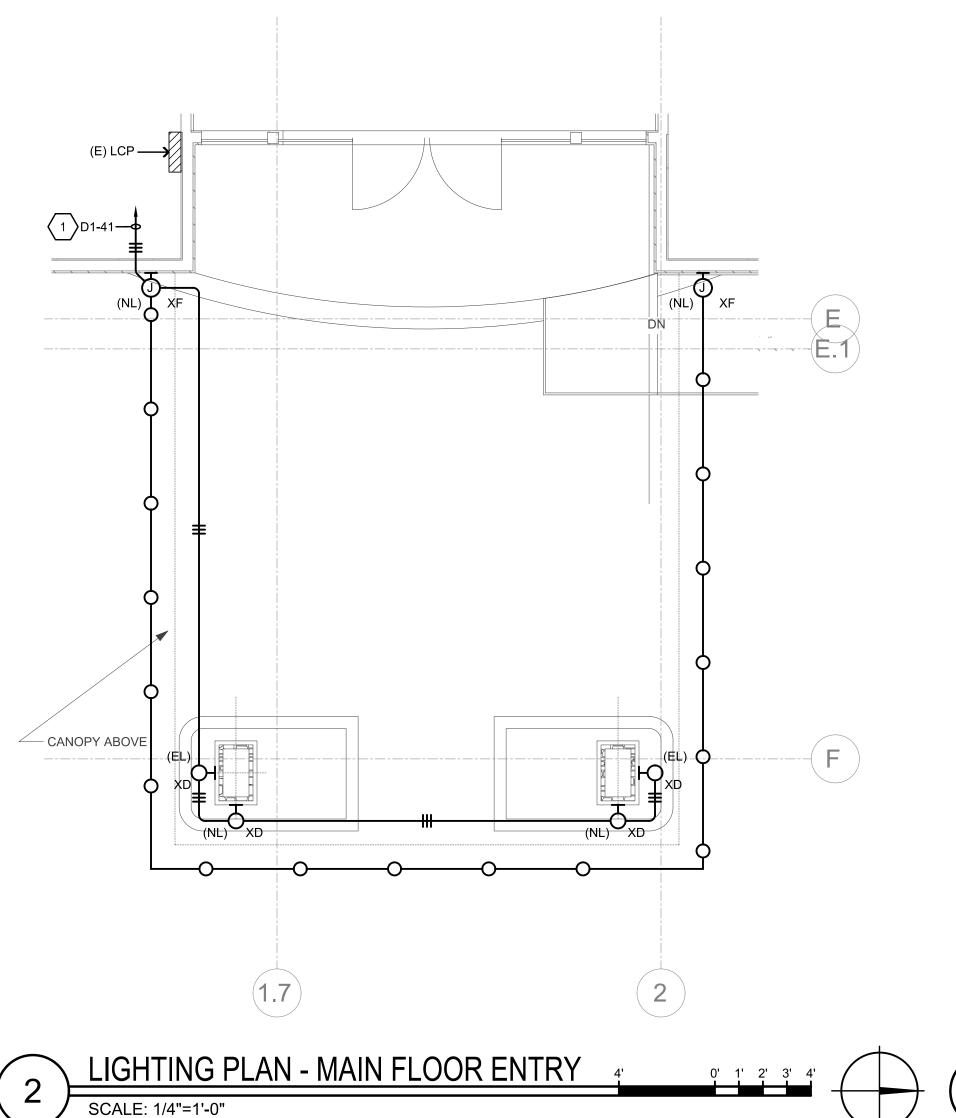




Voltage:       120/208V;3ø         Wire:       4W         Type:       NEMA 1         Mains:       M.L.O.         Load       A       B       C       Bkr       Ck       abc       Ck       Bkr       A       B         SPARE       20/1       1       4       20/1       2       20/1       1       4       20/1       1         SPARE       20/1       3       4       20/1       3       4       20/1       5         SPARE       20/1       3       4       20/1       5       6       6       20/1       10       20/3       1925         POOL PUMP       3850       7       7       8       7       14       20/1       10       20/3       1925         SPARE       20/1       13       4       14       20/1       10       20/3       1925       10       20/3       1925       10       20/3       1925       10       20/3       1925       10       20/3       1925       10       20/3       10       20/3       10       20/3       10       20/3       10       20/3       10       20/3       10       20/3       <				PAN	IELE	30/	٩F	RE	)	SCI	HED	ULE	•
Load         A         B         C         Bkr         Ck         Bkr         A         B           SPARE         -         -         20/1         1         -         2         20/1         -         4         20/1         -         4         20/1         -         4         20/1         -         4         20/1         -         -         4         20/1         -         -         4         20/1         -         -         -         -         -         -         4         20/1         -	Wire: Type:	4W NEMA I	_		1	] (	E) P	ANE	EL D	1	1		
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POOL PUMP3850Image: state of the sta									-				_
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POOL PUMP         3850         III         III         III         III         III         III         IIII         IIIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			3850	2250		10/0		•	-	0.010	1925	1005	-
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SPARE       Image: Spare in the system of the								$\square$					
WHEEL CHAIR LIFT       900       20/1       27       28       20/1       900       900         WHEEL CHAIR LIFT       900       900       20/1       29       30       20/1       900       900         DATA RACK       900       900       20/1       31       32       20/1       900       900         DATA RACK       900       900       20/1       33       34       20/1       900       900         DATA RACK       900       900       20/1       33       34       20/1       900       900         SPARE       900       900       20/1       35       36       20/1       900       900         2       LTG-LOWER FLOOR       283       20/1       37       38       20/1       900       900         2       LTG-MAIN FLOOR       283       248       20/1       40       20/1       40       20/1       900								$\Pi$	_		000		-
WHEEL CHAIR LIFT       Image: Model with the sector of the s				200				$\square$	_		900	000	-
DATA RACK       900       20/1       31       32       20/1       900       900         DATA RACK       900       900       20/1       33       4       34       20/1       900       900         SPARE       0       0       20/1       35       4       36       20/1       900       900         2       LTG-LOWER FLOOR       0       283       20/1       37       4       38       20/1       900       900         2       LTG-MAIN FLOOR       0       248       20/1       41       42       20/1       0       900				900	200			$\square$	_			900	-
DATA RACK       900       20/I       33       34       20/I       900         SPARE       20/I       35       36       20/I       36       20/I       900         SPARE       20/I       37       38       20/I       900       900         2       LTG-LOWER FLOOR       283       20/I       39       40       20/I       900         2       LTG-MAIN FLOOR       248       20/I       41       42       20/I       900					900			$\Pi$			000		-
SPARE       20/1       35       36       20/1       36       20/1       36       20/1       36       20/1       37       40       36       20/1       900       900         2       LTG-LOWER FLOOR       283       20/1       39       40       20/1       900       900         2       LTG-MAIN FLOOR       248       20/1       41       42       20/1       900			900	000				॑			900	000	-
SPARE       SPARE <th< td=""><td></td><td></td><td></td><td>900</td><td></td><td></td><td></td><td><math>\square</math></td><td></td><td></td><td></td><td>900</td><td>-</td></th<>				900				$\square$				900	-
2       LTG-LOWER FLOOR       283       20/1       39       40       20/1       900         2       LTG-MAIN FLOOR       248       20/1       41       42       20/1       900								$\Pi$	_		000		-
2 LTG-MAIN FLOOR 248 20/1 41 42 20/1 C				282				$\Pi$			900	800	-
				205	248			$\square$				500	-
4750 5933 499846254625	2 LIG-MAI	NTLOOK	4750	5022		20/1	41		42	20/1	4005	1005	<u> </u>
1 U.O.N., ALL BREAKERS AND LOADS SHOWN ARE EXISTING. 2 EXISTING BREAKER, NEW LOAD.			1 U.O.N., AL	5933 L BREAKERS AI	4998 ND LOADS SI	20/1	41	<b>TING</b>	42		4625		







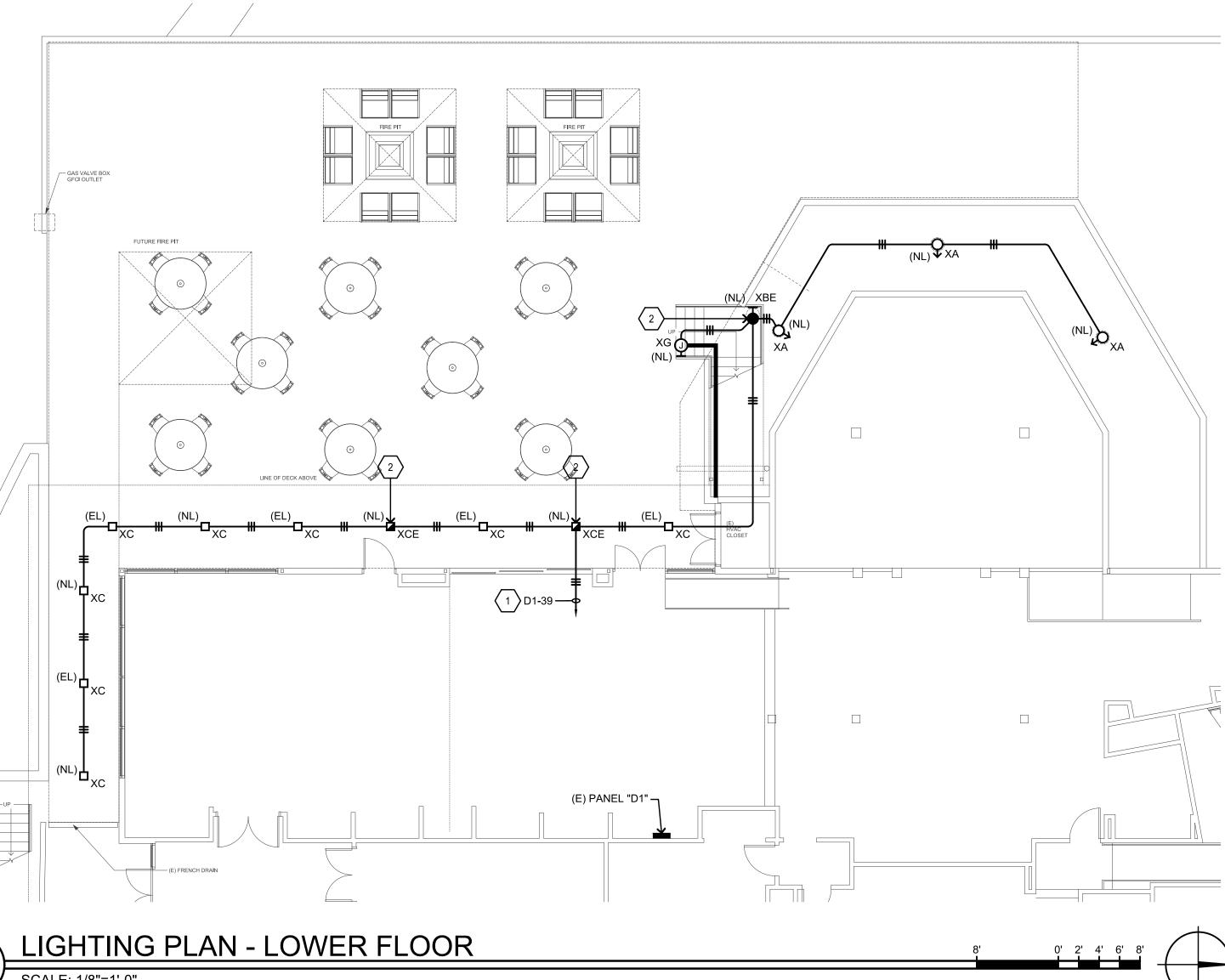


# LIGHT FIXTURE SCHEDULE

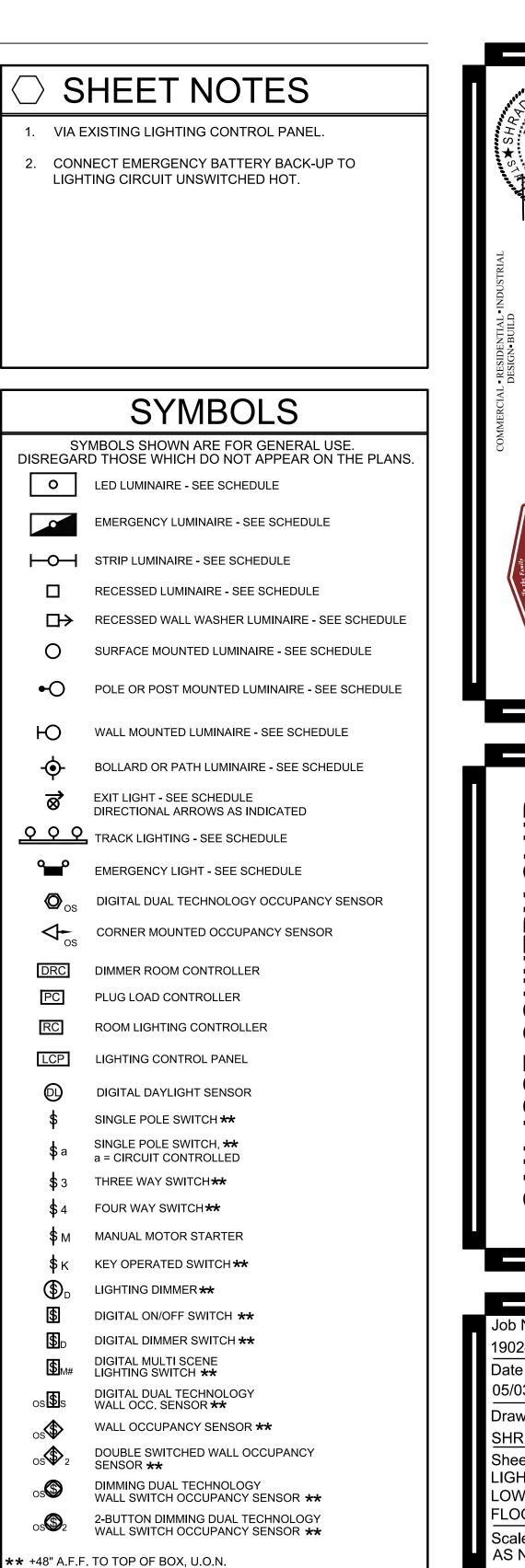
FIXTURE NOTES:

- 1. ALL LED LIGHT FIXTURE DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.
- 2. ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR MORE INFORMATION).
- 3. ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.
- 4. EXIT SIGNS , EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.
- 5. ALL RECESSED LIGHT FIXTURES SHALL BE U.L. APPROVED FOR ZERO CLEARANCE INSULATION COVER WHEN INSTALLED IN INSULATED CEILINGS.

TYPEDESCRIPTIONLAMPSMANUFACTURERXALED FLOOD LIGHT FIXTURE, UNIVERSAL VOLTAGE.21W LED 4000kLITHONIA LIGHTING DSXF1 LED SERIES .XBEWALL PACK LED LIGHT FIXTURE WITH EMERGENCY BATTERY BACK-UP, UNIVERSAL VOLTAGE.17W LED 4000kORACLE LIGHTING OWP-FC-104 LED SERIES .XCC6" DIA. RECESSED DOWNLIGHT LED FIXTURE, UNIVERSAL VOLTAGE.19W LED 4000kLITHONIA LIGHTING LND6 SERIES .XCC8AME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.19W LED 4000kLITHONIA LIGHTING LND6 SERIES .XCESAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.19W LED 4000kLITHONIA LIGHTING LND6 SERIES .XDWALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.14W LED 4000kLITHONIA LIGHTING OLLWU LED SERIES .XD48' STRING LIGHT FIXTURES WITH LED FILAMENT LIGHT ENGINE, 120V.96W LED 2700kTIVOLI ADAPT COMMERCIAL STRING LIGHTXG17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.4.5W/FT LED 3500KDIODE LED 24V-BLBSC3 SERIES .				
XA       LED 4000K       DSXF1 LED SERIES .         XBE       WALL PACK LED LIGHT FIXTURE WITH EMERGENCY BATTERY BACK-UP, UNIVERSAL VOLTAGE.       17W LED 4000K       ORACLE LIGHTING 0WP-FC-104 LED SERIES .         XCC       6" DIA. RECESSED DOWNLIGHT LED FIXTURE, UNIVERSAL VOLTAGE.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES .         XCE       SAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES .         XCE       SAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES .         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W LED 4000K       LITHONIA LIGHTING OLLWU LED SERIES .         XF       48' STRING LIGHT FIXTURES WITH LED FILAMENT LIGHT ENGINE, 120V.       96W LED 2700K       TIVOLI ADAPT COMMERCIAL STRING LIGHT         XF       17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.       4.5W/FT LED       DIODE LED 24V-BLBSC3 SERIES	TYPE	DESCRIPTION	LAMPS	MANUFACTURER
XBE       BATTERY BACK-UP, UNIVERSAL VOLTAGE.       LED 4000K       OWP-FC-104 LED SERIES         XC       6" DIA. RECESSED DOWNLIGHT LED FIXTURE, UNIVERSAL VOLTAGE.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES         XCE       SAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES         XCE       SAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W LED 4000K       LITHONIA LIGHTING OLLWU LED SERIES         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W LED 4000K       LITHONIA LIGHTING OLLWU LED SERIES         XF       48' STRING LIGHT FIXTURES WITH LED FILAMENT LIGHT ENGINE, 120V.       96W LED 2700K       TIVOLI ADAPT COMMERCIAL STRING LIGHT         XG       17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.       4.5W/FT LED       DIODE LED 24V-BLBSC3 SERIES	XA	LED FLOOD LIGHT FIXTURE, UNIVERSAL VOLTAGE.	LED	DSXF1 LED SERIES
XC       UNIVERSAL VOLTAGE.       LED 4000K       LND6 SERIES .         XCE       SAME AS FIXTURE TYPE "XC" EXCEPT WITH EMERGENCY BATTERY BACK-UP OPTION.       19W LED 4000K       LITHONIA LIGHTING LND6 SERIES .         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W LED 4000K       LITHONIA LIGHTING OLLWU LED SERIES .         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W LED 4000K       LITHONIA LIGHTING OLLWU LED SERIES .         XF       48' STRING LIGHT FIXTURES WITH LED FILAMENT LIGHT ENGINE, 120V.       96W LED 2700K       TIVOLI ADAPT COMMERCIAL STRING LIGHT         XG       17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.       4.5W/FT LED       DIODE LED 24V-BLBSC3 SERIES	XBE		LED	OWP-FC-104 LED SERIES
XCE       EMERGENCY BATTERY BACK-UP OPTION.       LED       LND6 SERIES         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LITHONIA LIGHTING         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LITHONIA LIGHTING         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LITHONIA LIGHTING         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LITHONIA LIGHTING         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LITHONIA LIGHTING         XD       WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.       14W       LED         48' STRING LIGHT FIXTURES WITH LED FILAMENT       96W       TIVOLI         LIGHT ENGINE, 120V.       LED       2700K       COMMERCIAL STRING LIGHT         XG       17' LED TAPE LIGHT FIXTURE WITH CHANNEL       4.5W/FT       DIODE LED         AND LENS, 24VDC.       11' LED       24V-BLBSC3 SERIES       24V-BLBSC3 SERIES	XC		LED	
XD       LED 4000K       OLLWU LED SERIES         XF       48' STRING LIGHT FIXTURES WITH LED FILAMENT LIGHT ENGINE, 120V.       96W LED 2700K       TIVOLI ADAPT COMMERCIAL STRING LIGHT         XG       17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.       4.5W/FT LED       DIODE LED 24V-BLBSC3 SERIES	XCE		LED	LND6 SERIES
XF       LIGHT ENGINE, 120V.       LED 2700K       ADAPT COMMERCIAL STRING LIGHT         XG       17' LED TAPE LIGHT FIXTURE WITH CHANNEL AND LENS, 24VDC.       4.5W/FT LED       DIODE LED 24V-BLBSC3 SERIES	XD	WALL CYLINDER LED FIXTURE, UNIVERSAL VOLTAGE.	LED	
AND LENS, 24VDC.	XF		LED	ADAPT
	XG		LED	



NORTH

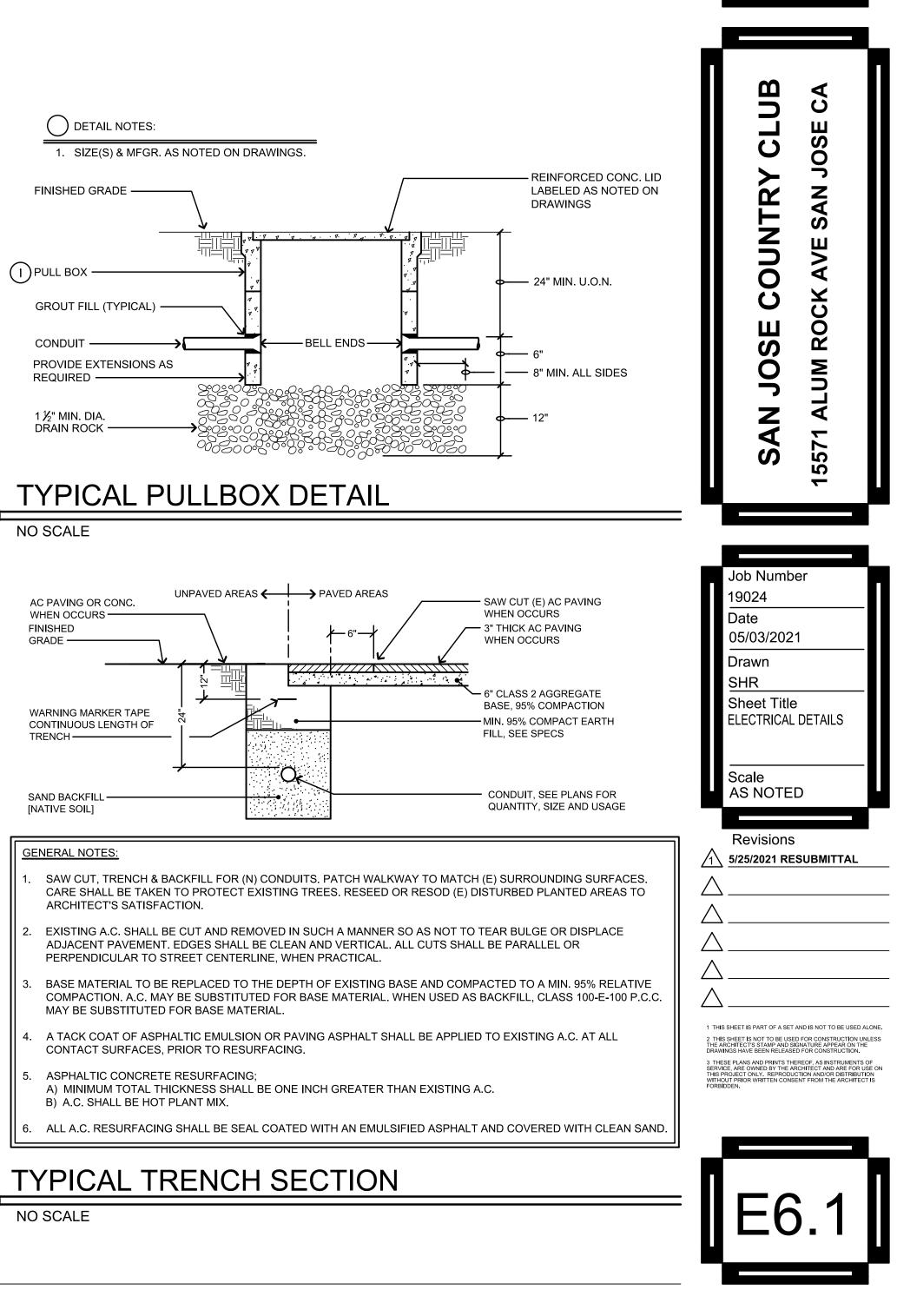


BRANCH CIRCUIT CONDUCTOR SIZING TABLE								
CIRCUIT AMPACITY/VOLTAGE CIRCUIT LENGTH REQUIREMENT								
20/120 56'-90' ½" C., 2 #10 & 1 #10 GND.								
20/120	20/120 91'-140' ½" C., 2 #8 & 1 #10 GND.							
20/277	20/277 131'-205' 1/2" C., 2 #10 & 1 #10 GND.							
20/277 206'-330' ½" C., 2 #8 & 1 #10 GND.								

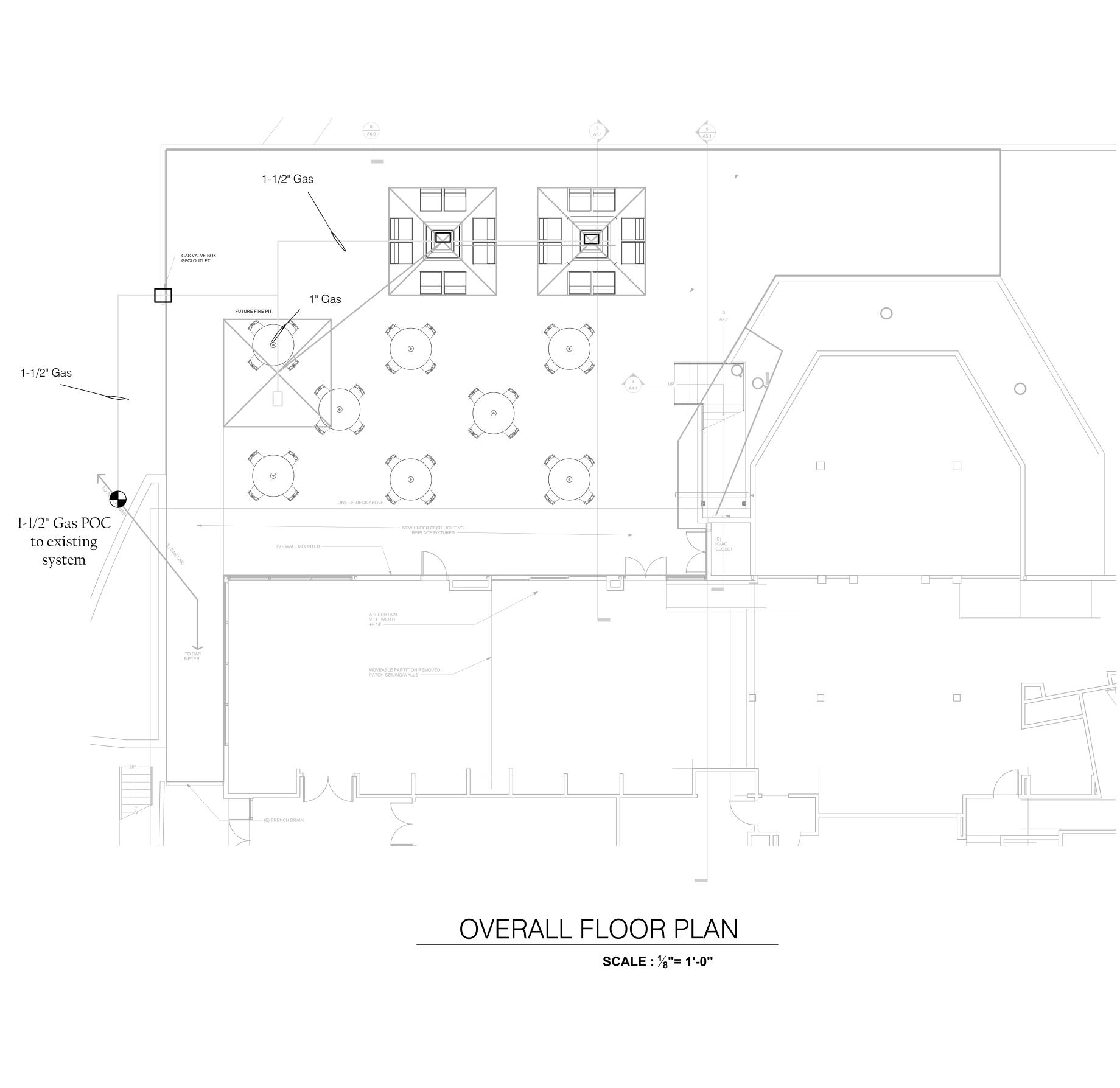
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

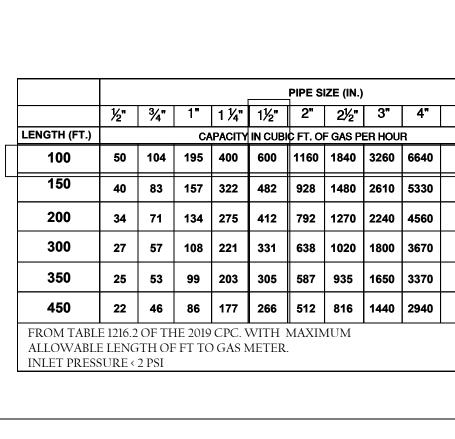


NORTH









SYSTEM 1				
EQUIPMENT	BTU'S			
(2) FP-1	180,000			
FP-2	180,000			
TOTAL	540,000			

	PLUMB	ING LE	GEN	۱D						
WASTE PIPING (SS)										
COLD WATER PIPING (CW)										<u> </u>
HOT WATER PIPING (HW)										
VENT PIPING (V)										
INDIRECT WASTE PIPING										
CONDENSATION PIPING (CD)										
GAS PIPING (G)										
	PIPE SYSTEM	IS SPEC	IFIC	ATI	ONS	5				
SERVICES		/2	CO.C.	Sci. Pres	Sr. BLACK C	VIEGA MES STEEL	COPPER COPPERS.	ellow D. The	eughthiatto	
	AG	•	(			$\frac{1}{1}$				
WASTE PIPING	BG	•								
VENT PIPING	AG	•								
	BG AG		•							
	BG		-							
DOMESTIC COLD WATER PIPING	60		1	<u> </u>						
	AG		•							
WATER PIPING			•							
WATER PIPING DOMESTIC HOT	AG BG AG		•	•	•	•				
WATER PIPING DOMESTIC HOT WATER PIPING	AG BG AG BG		•	•	•	•		•		
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WATER PIPING DOMESTIC HOT WATER PIPING	AG BG AG BG AG BG AG BG BG		•	•	•	•		•		

DRAWING INDEX

GAS PLUMBING FLOOR PLAN

Scope	Of	Wor
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P-1

1) Install new gas line to service (2) Fire pit areas

Fire pit purchased by others- plumber to provide gas valve and connection
 Associated gas piping installation from closest gas source.
 Other contractor to perform excavation abd backfill services.
 Other contractor to perform concrete cutting and paver install/removal services

Gas Calculation

PIPE SIZE (IN.)

\_\_\_\_

CAPACITY IN CUBIC FT. OF GAS PER HOUR

<u>½</u>" <u>¾</u>" 1" 1<u>¼</u>" <u>1½</u>" 2" <u>2½</u>" 3" 4"

40 83 157 322 482 928 1480 2610 5330

27 | 57 | 108 | 221 | 331 || 638 | 1020 | 1800 | 3670 |

## NOTES:

1) DRAIN PIPING 4" AND LARGER WILL HAVE A 1% SLOPE AND DRAIN PIPING 3" AND SMALLER WILL HAVE A 2% SLOPE AT MINIMUM.

2) DRAWINGS ARE DIAGRAMMATIC AND ALL SUPPORTS AND FITTINGS ARE NOT SHOWN. PLUMBER WILL INSTALL PLUMBING ACCORDING TO CPC 2019.

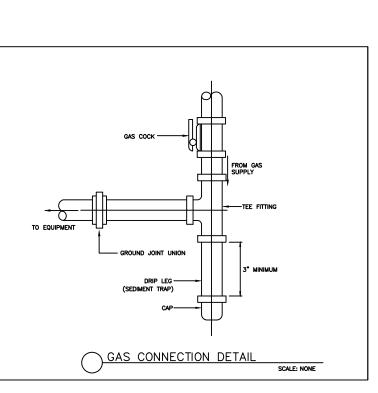
3) All plumbing fixtures and piping is to be listed by an approved listing and testing agency and properly labeled. CPC Section 301.2

4) All plumbing systems shall be installed in a manner conforming to the 2019 CPC and the manufacturer's recommendations. CPC Section 301.2

5) Verify all sizes and points of connection in field prior to start of construction.

6) Thermostatic mixing valves shall be installed on new lavatory sink hand washing.

FIXTURE SCHEDULE								
ITEM	FIXTURE	ROUGH-IN SERVICES					DESCRIPTION	
			COLD WATER	HOT WATER	VENT	WASTE	GAS	
FP-1	Fire Pit					3/4"	Warming Trends FS4848NG 180,000 BTU	
FP-2	Fire Pit (Future)					3/4"	Warming Trends FS4848NG 180,000 BTU	





V.