

3213 ESTATES AVE REMODEL & ALTERATION

ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
 CALIFORNIA BUILDING CODE, 2019 EDITION
 CALIFORNIA RESIDENTIAL CODE, 2019 EDITION
 CALIFORNIA PLUMBING CODE, 2019 EDITION
 CALIFORNIA MECHANICAL CODE, 2019 EDITION
 CALIFORNIA ELECTRICAL CODE, 2019 EDITION
 2019 CALIFORNIA REFERENCED STANDARDS CODE
 2019 CALIFORNIA ENERGY CODE
 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
 CITY OF PINOLE MUNICIPAL CODE
 COUNTY OF CONTRA COSTA CODES AND ORDINANCES

ALL TRADES MUST FOLLOW MANDATORY CAL GREEN REQUIREMENTS AS DETAILED IN THE INCLUDED "G" SHEETS – NO EXCEPTIONS OR EXCLUSIONS ACCEPTED

DESCRIPTION OF WORK:
 CONSTRUCT NEW BATHROOM IN (E) GREAT ROOM. INSTALL NEW KITCHENETTE IN GREAT ROOM. RELOCATE WATER HEATER AND FURNACE. REMOVE DROPPED CEILING IN KITCHEN. REPLACE KITCHEN CABINETS, SINK, SINK FIXTURE, RANGE HOOD & COUNTERTOPS. REMODEL (E) BATHROOMS. REMOVE (E) WOOD-BURNING STOVES & ABANDONED FIREPLACE. RELOCATE APPLIANCES IN LAUNDRY ROOM. INSTALL NEW ROOF

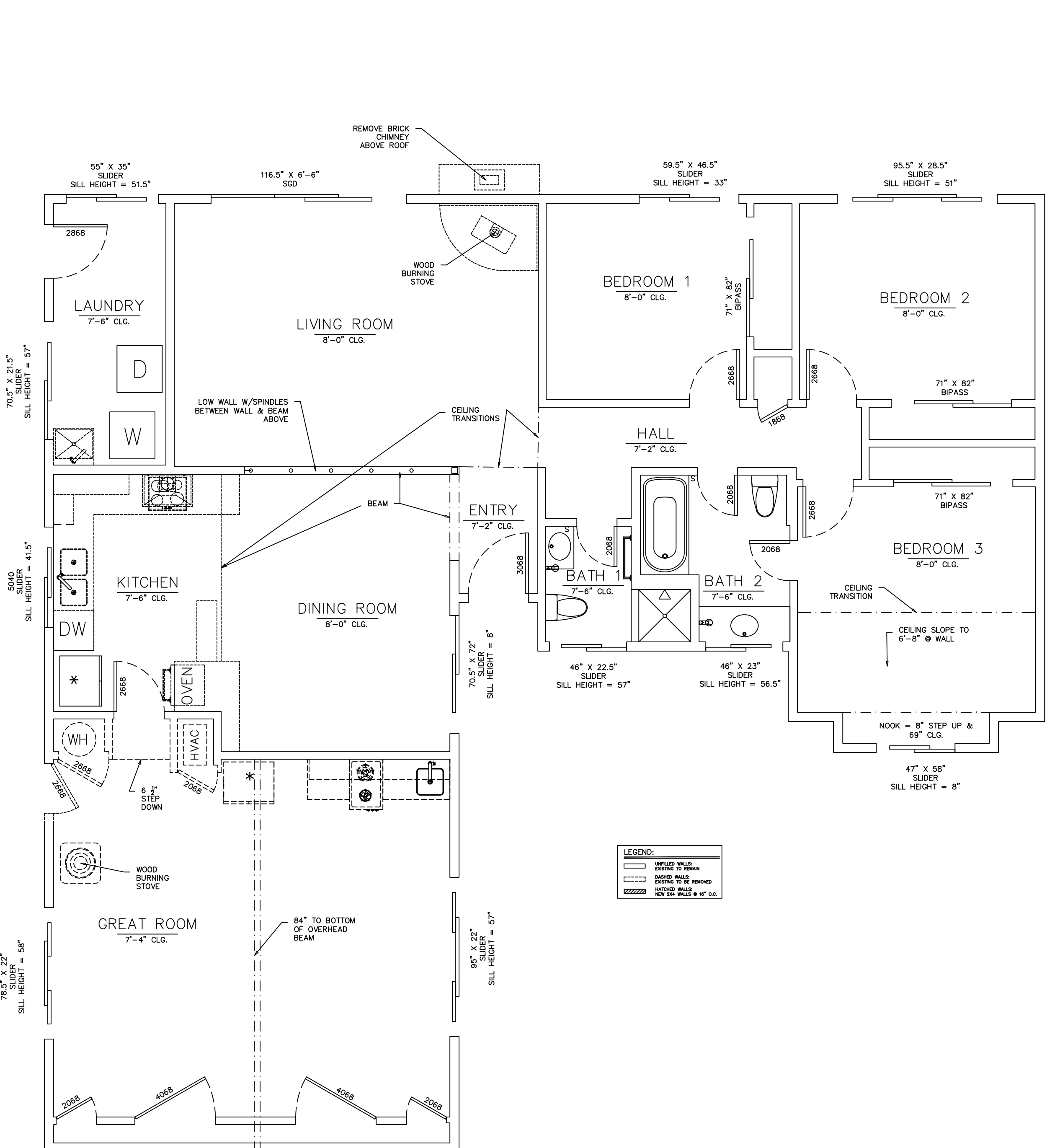
CONTRACTOR MUST RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH SECTION 4.408.1, ON SHEET G1.0, ALTERNATELY, THE CONTRACTOR MAY ELECT TO USE THE CITY OF PINOLE'S WASTE MANAGEMENT PLAN (WMP) FOR CONSTRUCTION DEMOLITION (C&D) RECYCLING AND REUSE WHICH CAN BE FOUND AT THE FOLLOWING LINK:
[HTTPS://WWW.CI.PINOLES.CA.US/USERFILES/SERFERS/SERVER_10946972/FILE/C&D%20WASTE%20MANAGEMENT%20FORMS%20\(AUTOSAVED\).PDF](https://www.ci.pinoles.ca.us/userfiles/serfers/server_10946972/file/C&D%20WASTE%20MANAGEMENT%20FORMS%20(AUTOSAVED).PDF)

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

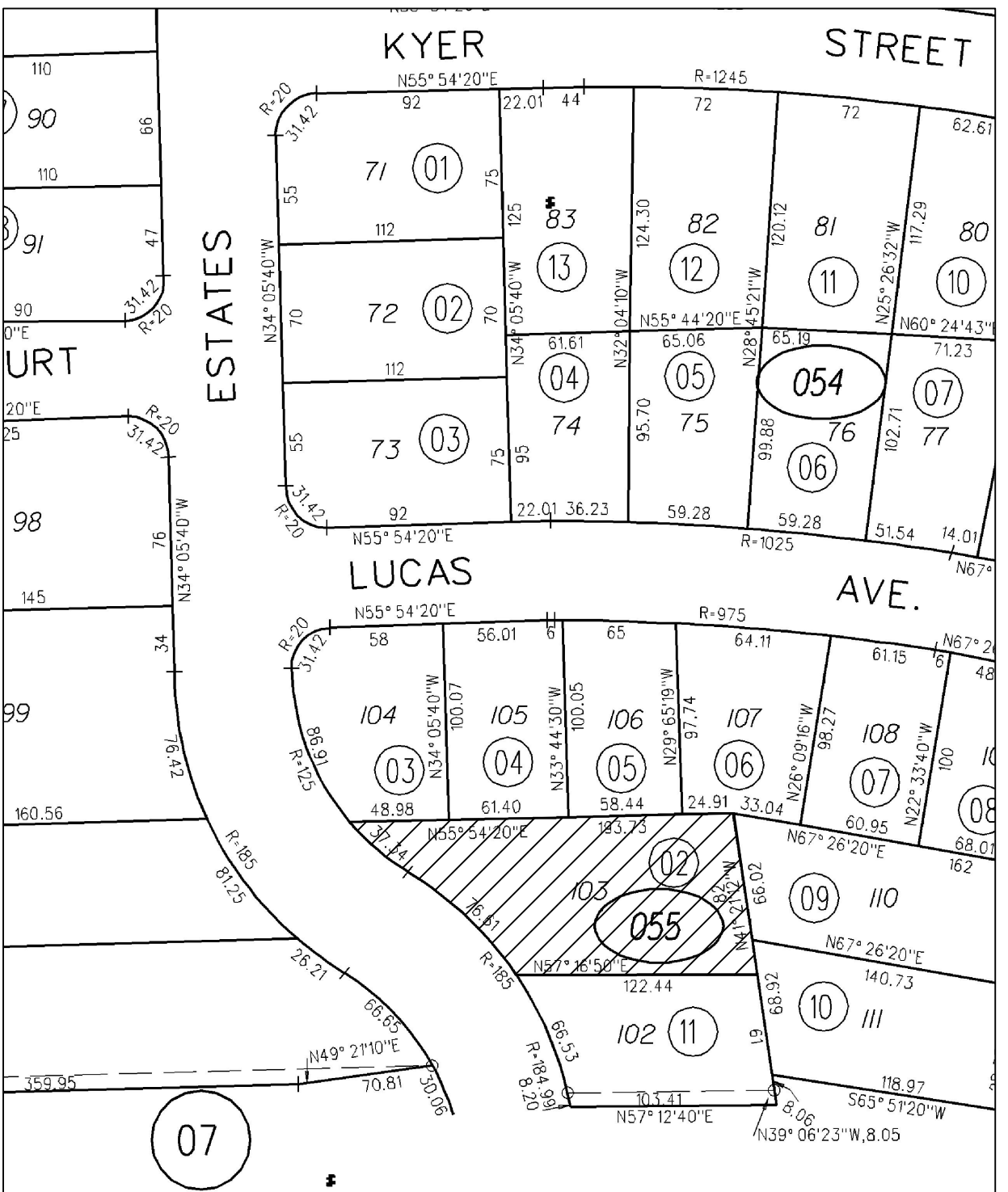
PROJECT DATA:	
COUNTY: CONTRA COSTA	
APN#: 360-055-002-8	
YEAR BUILT: 1958	
ZONING: R-1	
OCCUPANCY: R-3	
CLIMATE ZONE: 3	
TYPE OF CONSTRUCTION: V-B	
SEISMIC CATEGORY "D"	
SPRINKLERS: NO	
STORIES: 1	
BEDROOMS: (E) 3 (N) 4	
BATHROOMS: (E) 2 (N) 3	
(E) RESIDENCE:	1,650 SQ FT
RESIDENCE ADDITION:	0 SQ FT
(N) LIVING AREA:	1,650 SQ FT
(E) CARPORT:	400 SQ FT
CARPORT ADDITION:	0 SQ FT
(N) CARPORT AREA:	400 SQ FT
(E) BUILDING TOTAL S.F.:	1,650 SQ FT
(N) BUILDING TOTAL S.F.:	1,650 SQ FT
LOT SF:	12,000 SQ FT
SHEET INDEX:	
A0.1	COVER, PROJECT DATA, INDEX
A0.2	CODE & CONSTRUCTION NOTES
A1.10	FLOOR PLANS & DEMOLITION PLAN
A1.11	CONSTRUCTION PLAN
A1.12	ENLARGED CONSTRUCTION PLANS
E1.10	ELECTRICAL PLAN
G1.0	CAL GREEN REQUIREMENTS
G1.1	CAL GREEN REQUIREMENTS
S0.0	STRUCTURAL GENERAL NOTES
S2.0	FOUNDATION PLAN & LEVEL 1 FRAMING PLAN
S2.1	CEILING & ROOF FRAMING PLANS
S3.0	STRUCTURAL CUSTOM DETAILS

REMODEL & ADDITION	OWNER:
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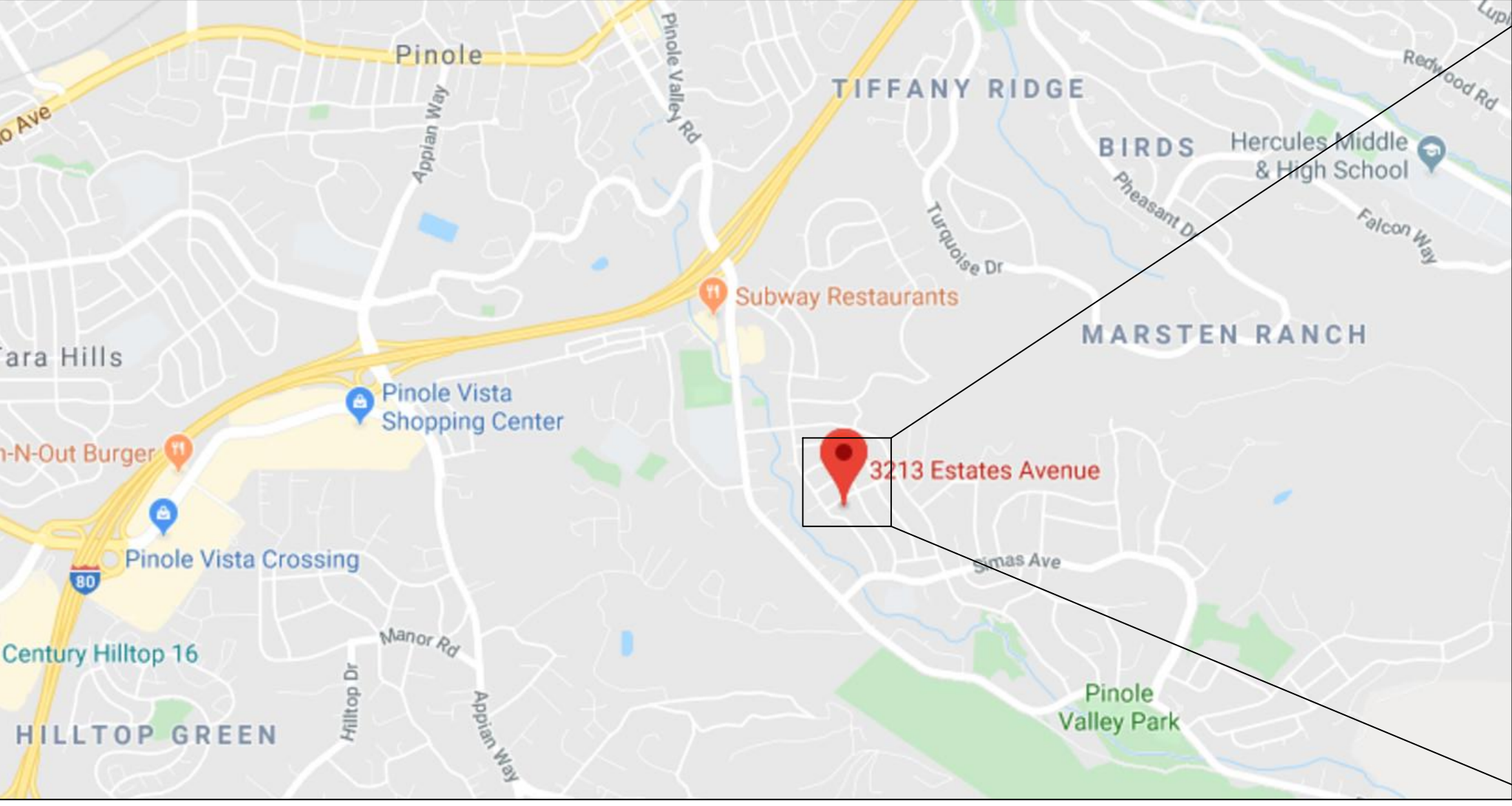
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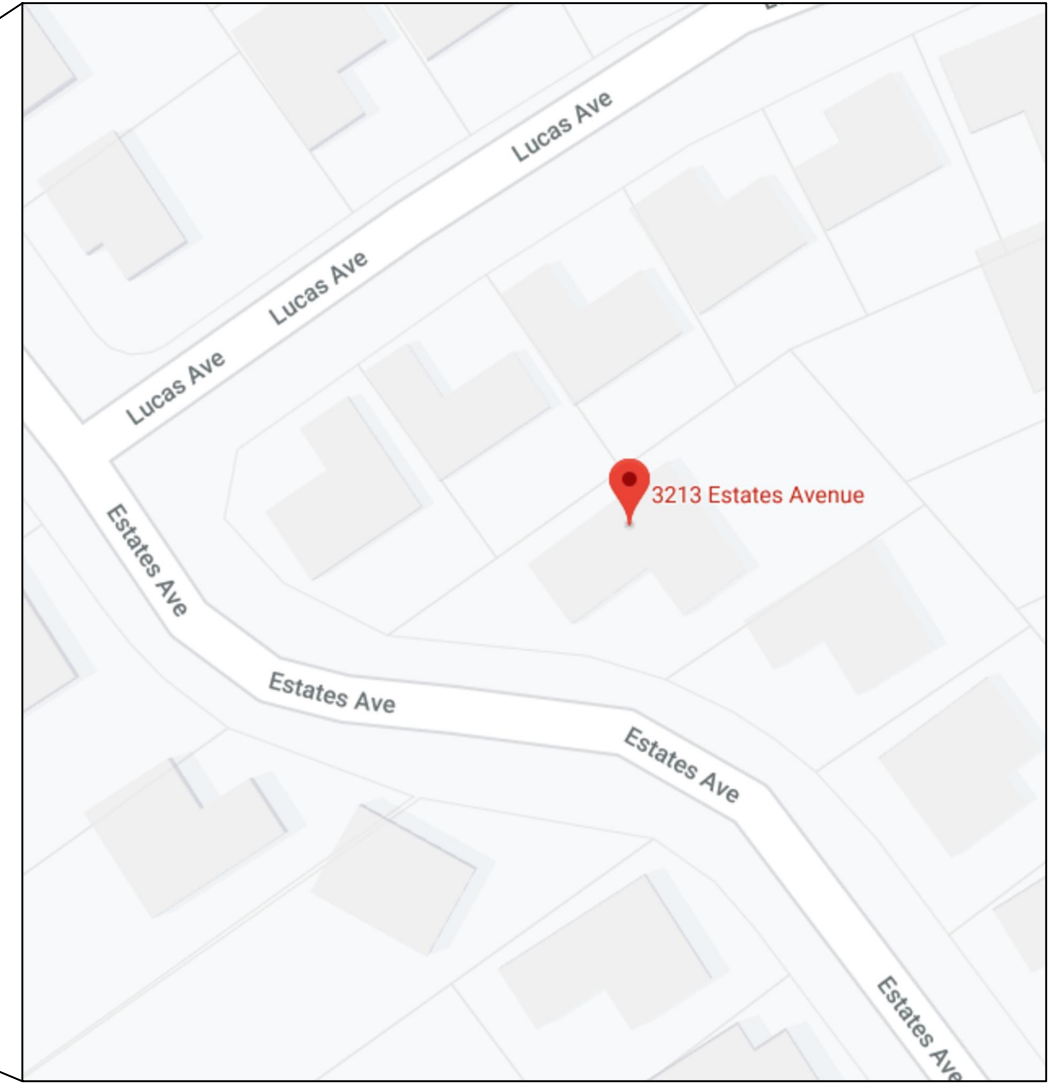
(E) FLOOR PLAN
SCALE: 1/4"=1'-0"



ASSESSORS PARCEL MAP



VICINITY MAP



LOCAL MAP

**SITE DATA
SHEET INDEX**

A0.1

ABBREVIATIONS

&	AND	F.B.	FLAT BAR	QT	QUARRY TILE
∠	ANGLE	F.H.W.S.	FLAT HEAD WOOD SCREW	R.W.L.	RAIN WATER LEADER
○	AT	FL.	FLOOR	R.WD.	REDWOOD
?	CENTERLINE	F.D.	FLOOR DRAIN	RGR	REGISTER
?	DIAMETER	F.J.	FLOOR JOISTS	REINF	REINFORCE
(E)	EXISTING	FLUOR.	FLUORESCENT	REF	REFERENCE
(N)	NEW	FT.	FOOT OR FEET	REFG.	REFRIGERATOR
⊥	PERPENDICULAR	FTG.	FOOTING	REQ.	REQUIRED
#	FOUND	FAU.	FORCED AIR UNIT	RESIL.	RESILIENT
ABV.	ABOVE	FDN.	FOUNDATION	REDWD.	REDWOOD
AB	ANCHOR BOLT	FRAM'G	FRAMING	REV.	REVERSE
ACOUS.	ACOUSTICAL	FRS/FS	FULL SIZE	R.	RISER/ RADIUS
A.D.	AREA DRAIN	FURR.	FURRING	RM.	ROOM
ADJ.	ADJUSTABLE	FUT.	FUTURE	R.O.	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	GALV.	GALVANIZED	S.N.D.	SANITARY NAPKIN
AGOR	AGGREGATE	G.I.	GALVANIZED IRON	S.N.R.	SANITARY NAPKIN
AL./ALUM.	ALUMINUM	G.S.M.	GALVANIZED SHEET METAL	SCHD.	SCHEDULE
APPROX.	APPROXIMATE	GA.	GAUGE	S.C.D.	SEAT COVER DISPENSER
ARCH.	ARCHITECT	GL.	GLASS	SECT.	SECTION
ARCH'L	ARCHITECTURAL	G.B.	GRAB BAR	S.C.E.D.	SEE CIVIL ENGINEER
ASPH.	ASPHALT	GR.	GRADE	DRWINGS	DRAWINGS
AWG.	AWNING	GND.	GROUND	SEE ELECTRICAL DRAWINGS	SEE ELECTRICAL DRAWINGS
BM.	BEAM	GFI.	GROUND FAULT INTERRUPTER	SEE LANDSCAPE DRAWINGS	SEE LANDSCAPE DRAWINGS
BTUM.	BUTIMINOUS	GYP.	GYPSPUM BOARD	SEE MECHANICAL DRAWINGS	SEE MECHANICAL DRAWINGS
BLK.	BLOCK	GYP.BD.	GYPSPUM BOARD	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS
BLKG.	BLOCKING	H/C	HANDICAP	SEE STRUCTURAL DRAWINGS	SEE STRUCTURAL DRAWINGS
BD.	BOARD	H.C.P.	HANDICAP/HANDICAPPED	SERVICE SINK	SERVICE SINK
BLT.	BOLT	HDWE.	HARDWARE	SH.	SHOWER
BOT.	BOTTOM	HDWD.	HARDWOOD	SHR.	SHOWER
BLDG.	BUILDING	HGT./HT.	HEIGHT	SIM.	SIMILAR
CAB.	CABINET	HGT./HT.	HEIGHT	SH	SINGLE HUNG/SHELF
C.O.	CATCH OPENING	H.M.	HOLLOW CORE	S	SINK
C.B.	CATCH BASIN	HORIZ.	HORIZONTAL	SKYLT	SKYLIGHT
CPT	CARPET	H.B.	HOSE BIB	SL.	SLIDING/ SLOPE
CAS	CASEMENT	H.H.P.	HIGH POINT	SD.	SLOPE
CHLK.	CHAIN LINK	HR.	HOUR	S.D.	SOAP DISPENSER
CL.	CAST IRON	H.V.A.C.	HEATING, VENTING & AIR CONDITIONING	S.C.	SOLID CORE
CLKG.	CAULKING	I.D.	INSIDE DIAMETER	SOUTH	SOUTH
C.J.	CEILING JOISTS	INSUL.	INSULATION	SP	SPACE
CLG.	CEILING	INT.	INTERIOR	SPEC.	SPECIFICATION
CEM.	CEMENT	I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	SQ.	SQUARE
CTR.	CENTER	JAN.	JANITOR	SQ.FT.	SQUARE FOOT
CER.	CERAMIC	JT.	JOINT	SQ.INCH	SQUARE INCH
C.T.	CERAMIC TILE	LAB	LABORATORY	SST	STAINLESS STEEL
CLR.	CLEAR	LAM.	LAMINATE	STD.	STANDARD
CLO.	CLOSET	LAV.	LAVATORY	STA.	STATION
CMU	CONCRETE MASONRY UNIT	LT.	LIGHT	STL.	STEEL
COL.	COLUMN	LKR.	LOCKER	STOR.	STORAGE
CVT.	COMPOSITION VINYL TILE	MB	MACHINE BOLT	STR.	STRUCTURE
CONC/C.	CONCRETE	MFR.	MANUFACTURER	STRUCT.	STRUCTURE
CONN.	CONNECTION	MFG	MANUFACTURING	SUSP.	SUSPENDED
CONST.	CONSTRUCTION	MECH.	MECHANICAL	SYM.	SYMMETRICAL
CONT.	CONTINUOUS	MAX.	MAXIMUM	TEL.	TELEPHONE
CORR.	CORROSION	MCH.	MECHANICAL	T.V.	TELEVISION
CG	CORNER GAURD	M.C.	MEMBRANE	TEMP.	TEMPERED/TEMPORARY
CTSK	COUNTERSINK	M.C.	MEMBRANE	TERR.	TERRAZZO
DEPT.	DEPARTMENT	M.C.	MEMBRANE	THICK	THICK
DET.	DETAIL	MET.	METAL	TILE	TILE
D/F	DOUGLAS FIR	MH.	MAN HOLE	T.P.D.	TOILET PAPER DISPENSER
D.F.	DRINKING FOUNTAIN	MH.	MAN HOLE	T.G.	TONGUE AND GROOVE
DIAM.	DIAMETER	MIM.	MINIMUM	T.O.C.	TOP OF CURB
DIM.	DIMENSION	MIR.	MIRROR	T.O.P.	TOP OF PAVEMENT
DISP.	DISPENSER	MISC.	MISCELLANEOUS	T.O.S.	TOP OF SUBFLOOR/SLAB
DR.	DOOR	M.O.	MASONRY OPENING	T.O.SHTG.	TOP OF SHEATHING
D.O.	DOOR OPENING	MTD.	MOUNTED	T.O.P.	TOP OF PLATE
DBL.	DOUBLE	MUL.	MULLION	T.O.W.	TOP OF WALL/WINDOW
DH.	DOUBLE HUNG	N.	NORTH	T.B.	TOWEL BAR
DN.	DOWN	NOM.	NOMINAL	TRE.	TREAD
DS.	DOWN SPOUT	N.L.C.	NOT IN CONTRACT	TYP.	TYPICAL
D.S.P.	DRY STAND PIPE	N.T.S.	NOT TO SCALE	U.L.	UNDERWRITERS LABORATORY
DWR.	DRAWER	N.O. or #	NO OR #	UNC	UNFINISHED
DWG'S	DRAWINGS	OB.S.	OBSOLETE	UNIFORM BUILDING CODE W/ CALIFORNIA AMENDMENTS UNLESS OTHERWISE NOTED	UNIFORM BUILDING CODE W/ CALIFORNIA AMENDMENTS UNLESS OTHERWISE NOTED
E.	EAST	O.F.E.	OWNER FURNISHED EQUIPMENT	U.O.N.	UNLESS OTHERWISE NOTED
EA.	EACH	OFF.	OFFICE	UR.	URINAL
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM	OFF.	OFFICE	V.I.F.	VERIFY IN FIELD
E.J.	EXPANSION JOINT	O.C.	ON CENTER	VERT.	VERTICAL
ELEC.	ELECTRICAL	OPNG.	OPENING	V.G.	VERTICAL GRAIN
EP.	ELECTRICAL PANELBOARD	OPP.	OPPOSITE	VEST.	VESTIBULE
EL./ELEV	ELEVATION	O.H.	OPPOSITE HAND	VNL./V	VINYL
ELEV	ELEVATOR	O.D.	OUTSIDE DIAMETER (Dia)	VCT	VINYL COMPOSITION TILE
EMER.	EMERGENCY	O/	OVER	W.	WEST/WAX
ENCL.	ENCLOSURE	O.A.	OVERALL	WSCOT	WAINSCOT
EQ.	EQUAL	OH.	OVER HANG/OVERHEAD	W.C.	WATER CLOSET
EQUPT.	EQUIPMENT	PR	PAIR	WH.	WATER HEATER
E.W.C.	ELECTRICAL WATER COOLER	PTD	PAINTED	WP	WATERPROOF
EXT.	EXISTING	PNL	PANEL	WT.	WEIGHT
EXP.	EXPANSION	P.T.D.	PAPER TOWEL DISPENSER	W/	WITH
EXPO.	EXPOSED	P.T.D./R	PAPER TOWEL DISPENSER AND RECEPTACLE COMBO	W/O.	WITHOUT
EXT.	EXTERIOR	PTR.	PAPER TOWEL RECEPTACLE	WD.	WOOD
F.C.	FACE OF CONCRETE	P.TN.	PARTITION		
F.B.	FACE OF CONCRETE BLOCK	P.D.	PLANTER DRAIN		
F.O.M.	FACE OF MULLION	PLAS.	PLASTER		
F.D.	FLOOR DRAIN	P.LAM.	PLASTIC LAMINATE		
F.O.F.	FACE OF FINISH	PL.	PLATE		
F.O.S.	FACE OF STUDS	PLUMB	PLUMBING		
F.F.	FALSE FRONT/FINISH FLOOR	PLYWD/PLY	PLYWOOD		
FIN.	FINISH	PT.	POINT/PRESSURE TREATED		
FG	FINISH GRADE	P.I.P.	POURED IN PLACE		
F.A.	FIRE ALARM	PREFAB	PREFABRICATED		
F.E.	FIRE EXTINGUISHER	P/L	PROPERTY LINE		
F.E.C.	FIRE EXTINGUISHER CAB.	PRCST.	PRE-CAST		
F.H.C.	FIRE HOSE CABINET				
FFRF.	FIREPROOF				
FIX.	FIXED				
FLASH.	FLASHING				

GENERAL NOTES:

- THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY. THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS, CONDITIONS, MATERIALS, EQUIPMENT, SELECTIONS, AND TITLE 24 COMPLIANCE.
- THE CONTRACTOR SHALL VERIFY ALL SITE GRADES, EXISTING IMPROVEMENTS, PROPERTY LINES, EASEMENTS, SETBACKS, AND UTILITIES, AND REPORT WHERE DISCREPANCIES OCCUR.
- DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE TO FACE OF FINISH AND ACTUAL DOOR OPENING WIDTH UNLESS OTHERWISE NOTED (U.O.N.). ALL DIMENSIONS NOTED "CLEAR" OR "CLR" ARE FOR EQUIPMENT CLEARANCES AND MUST BE STRICTLY MAINTAINED. ALL DIMENSIONS NOTED "VERIFY" OR V. I. F. ARE TO BE CHECKED BY CONTRACTOR PRIOR TO AND DURING CONSTRUCTION. DIMENSIONS TAKE PRECEDENCE OVER SCALE OF THE DRAWING; DO NOT SCALE DRAWINGS.
- MANUFACTURER'S MATERIALS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS (U.O.N.). THE CONTRACTOR ACKNOWLEDGES THAT THE DRAFTER SHALL NOT SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE WORK NOR SHALL THE DRAFTER HAVE ANY RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES SELECTED BY THE CONTRACTOR NOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK. THESE RIGHTS AND RESPONSIBILITIES ARE SOLELY THOSE OF THE CONTRACTOR IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.
- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME OF INSPECTION.
- EXTERIOR WINDOWS AND DOORS SHALL MEET THE DESIGN PRESSURE RATING REQUIREMENTS OF CBC §1714.5.
- DOORS AND WINDOWS TO THE EXTERIOR SHALL BE FULLY WEATHER STRIPPED.
- LANDINGS SHALL NOT BE MORE THAN 7-3/4" LOWER THAN THRESHOLD AND MAINTAIN 1/4" INCH PER FOOT SLOPE AWAY FROM BUILDING FOR DRAINAGE.
- SLOPE ALL GRADES AWAY FROM NEW CONSTRUCTION AT 6" FOR EVERY 5'.
- ALL NEW CONSTRUCTION TO BLEND/MATCH EXISTING.
- ALL WOOD TO BE DOUGLAS FIR #2 OR BETTER, U.O.N.
- ALL CONCRETE TO BE 2,500 P.S.I. @ 28 DAYS U.O.N.
- PROVIDE FIRE DEPARTMENT ACCESS AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE AND INSTALL ALL WORK SHOWN ON DRAWINGS, SUBJECT TO THE LIMITATIONS OF SCOPE OF THE BASE BID, LISTED ABOVE. THE CONTRACTOR SHALL PROVIDE MISCELLANEOUS FASTENERS, BLOCKING AND SEALANTS INCIDENTAL TO COMPLETE THE CONTRACTED WORK. THIS SHALL INCLUDE SUPPLYING AND INSTALLING NECESSARY BACKING INSIDE WALLS FOR THE INSTALLATION OF WALL HANGING ACCESSORIES WHERE INDICATED. ALL WORK SHALL BE INSTALLED AS SHOWN ON DRAWINGS, PLUMB, AND LEVEL, TRUE TO LINE AND SECURELY FASTENED OR ANCHORED.
- CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS TO COORDINATE WITH EXISTING BUILDING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY FIELD OBSERVED CODE VIOLATIONS, OR INCORRECT EXISTING CONSTRUCTION INCLUDING APPARENT CONFLICTS BETWEEN THE EXISTING CONSTRUCTION AND THE CONTRACT DRAWINGS TO THE IMMEDIATE ATTENTION OF THE DESIGNER. DO NOT SCALE DRAWINGS, CONTACT DESIGNER FOR CLARIFICATION OF DIMENSIONS.
- CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PROTECT THE POSSESSIONS OF THE OWNER THAT REMAIN IN OR ADJACENT TO THE WORK FROM LOSS OR DAMAGE. ANY PORTION OF THE PROPERTY DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR DURING THE COURSE OF THE WORK MUST BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. THE TERM "DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO ANY DAMAGE CAUSED BY CONTRACT OPERATION OR WORKERS DURING CONSTRUCTION TO THE OWNER'S RESIDENCE, FURNISHINGS, CLOTHING, FENCES, ADJOINING PROPERTIES OR TO PUBLIC SPACES.

PLUMBING NOTES:

- SHOWER HEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) PER CPC SECTION 408.2.
- SHOWER TO BE PROVIDED WITH PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE CONTROLS
- THE SIZE OF WATER CLOSETS TO BE MAXIMUM 1.28 GALLONS PER FLUSH.
- FAUCETS AT LAVATORIES SHALL HAVE A MAXIMUM WATER SUPPLY FLOW RATE OF 1.2 GPM.
- KITCHEN SINK FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM.
- PROVIDE 1-1/2" DRAIN LINE MINIMUM FROM KITCHEN. CPC 420.3
- PROVIDE A LISTED AIR GAP FOR DISHWASHER. CPC 414.3
- PROVIDE A DEDICATED GAS LINE FROM THE METER TO THE APPLIANCE.
- PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICE ON ALL EXTERIOR HOSE BIBS.
- MINIMUM OF 1/4" PER FOOT (2%) SLOPE FOR ALL HORIZONTAL DRAINAGE PIPING.
- SEISMIC STRAPPING FOR HOT WATER HEATER REQUIRED PER CPC SECTION 508.2.
- THE HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVE SHALL HAVE ATTACHED TO IT A PIPE WHICH WILL RUN OUTSIDE THE BUILDING WITH THE END OF THE PIPE BETWEEN 6 & 24 INCHES ABOVE GRADE & POINTED DOWN
- ALL NEW GAS PIPING SHALL BE SIZED TO SUPPLY SUFFICIENT GAS TO THE APPLIANCES. THE GAS PIPING SHALL BE TESTED WITH 10 LBS. OF PRESSURE FOR A MINIMUM OF 15 MINUTES.
- HOT WATER PIPING 3/4" AND GREATER SERVING A KITCHEN SHALL BE INSULATED WITH MINIMUM 1" WALL THICKNESS INSULATION.
- ALL OVEN AND STOVE GAS VALVES SHALL BE READILY ACCESSIBLE AND BE WITHIN 3'-0" OF THE APPLIANCE. CONNECTORS MAY NOT BE CONCEALED OR PASS THROUGH ANY FLOOR, WALL PARTITION, CEILING, OR APPLIANCE HOUSING CABINET.
- A 2" ACCESSIBLE PLUMBING CLEANOUT UNDER THE SINK SHALL BE REQUIRED.
- AN AIR GAP ABOVE THE SINK RIM SHALL BE INSTALLED BETWEEN THE DISHWASHER DRAINPIPE AND THE GARBAGE DISPOSAL INLET.

MECHANICAL NOTES:

- PER CMC, SECTION 502.2.1, POINT OF EXHAUST VENT MUST BE A MINIMUM OF 3'-0" FROM A PROPERTY LINE OR OPENINGS INTO THE BUILDINGS SUCH AS DOORS, WINDOWS, OPENING SKYLIGHTS, ATTIC VENTS & 10- FEET FROM A FORCED AIR INLET.
- PER CMC, SECTION 504.1.1, BACK DRAFT DAMPER ARE REQUIRED ON VENTILATION SYSTEMS EXHAUSTING TO THE EXTERIOR.
- PROVIDE EXHAUST HOOD OVER RANGE/ COOKTOP, 100 CFM MINIMUM AND IT SHALL TERMINATE OUTSIDE.
- A VERTICAL MINIMUM CLEARANCE OF 30" IS REQUIRED ABOVE A RANGE TO COMBUSTIBLE MATERIALS, AND A MINIMUM VERTICAL CLEARANCE OF 24" ABOVE THE RANGE TO THE BUILT-IN MICROWAVE OVENS IS REQUIRED. NOTE: LARGER UNITS REQUIRE GREATER CLEARANCES, REFER TO MANUFACTURER REQUIREMENTS.

ELECTRICAL NOTES:

- ARC FAULT CIRCUIT INTERRUPTER (AFCI) REQUIRED FOR ALL NEW 120-VOLT, SINGLE-PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN KITCHENS, BATHROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, LAUNDRY ROOMS, GARAGE, HALLWAYS, OR SIMILAR ROOMS OR AREAS.
- PER CEC 406.12, PROVIDE TAMPER-RESISTANT RECEPTACLES IN AREAS SPECIFIED IN CEC 210.52, SPECIFICALLY ALL 125-VOLT, 15- AND 20-AMPERE RECEPTACLES IN AREAS SUCH AS KITCHENS, BATHROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, SUNROOMS, BEDROOMS, RECREATION ROOMS, LAUNDRY ROOMS, GARAGE, OR SIMILAR ROOMS OR AREAS OF A DWELLING UNIT.
- RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLET. THIS ALLOWS FOR A MAXIMUM OF 12 FEET BETWEEN RECEPTACLES ON THE SAME WALL.
- SMOKE ALARM.** WHEN A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING \$1,000, EXISTING DWELLINGS THAT HAVE ATTACHED GARAGES OR FUEL BURNING APPLIANCES, SMOKE DETECTORS SHALL BE INSTALLED: (A) IN EACH SLEEPING ROOM. (B) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, (C) ON EACH STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. NEW SMOKE ALARMS TO BE INTERCONNECTED. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- CARBON MONOXIDE ALARM.** WHEN A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING \$1,000, EXISTING DWELLINGS THAT HAVE ATTACHED GARAGES OR FUEL BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN THE FOLLOWING LOCATIONS: (A) OUTSIDE OF THE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S); (B) ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.
- ANY SMOKE ALARM WITHIN 20 FEET OF A PERMANENTLY INSTALLED COOKING APPLIANCE SHALL BE THE IONIZATION OR PHOTOELECTRIC ALARM TYPE AND HAVE A MINIMUM SPACING OF 10 FEET AWAY.
- THE MINIMUM DISCONNECTION MEANS FOR A SINGLE FAMILY DWELLING IS 100 AMPERES, 3-WIRE.
- PROVIDE ADEQUATE GROUND TO ELECTRICAL SERVICE ENTRY PANEL. VERIFY OR PROVIDE BOND TO METAL GAS AND WATER PIPES.
- ELECTRICAL SUB PANELS SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IGNITABLE MATERIALS SUCH AS CLOTHES CLOSETS.
- STAGGER NEW ELECTRICAL OUTLETS BY AT LEAST 24-INCHES ON THE OPPOSITE SIDE OF THE FIRE-WALL (GARAGE/ HOUSE WALL) PER BUILDING CODE SECTION 712.3.2.
- PROVIDE AND INSTALL RECEPTACLE OUTLETS AT HOUSE EXTERIOR WALLS THAT ARE GFCI PROTECTED, GASKETED-COVER TYPE FOR USE IN WET LOCATIONS.
- PROVIDE AT LEAST ONE GFCI OUTLET WITHIN 3 FEET OF EACH SINK IN THE BATHROOMS.
- AT LEAST ONE NEW LUMINAIRE IN EACH BATHROOM SHALL BE CONTROLLED BY A VACANCY SENOR.
- PER CEC, AT LEAST ONE 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM RECEPTACLE OUTLETS. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
- BATHROOM LIGHTING CANNOT BE ON AN OUTLET CIRCUIT.
- UNDER CABINET LUMINAIRES SHALL BE SEPARATELY SWITCHED
- A MINIMUM OF (2) 20 AMP GFCI PROTECTED CIRCUITS SHALL SUPPLY ALL KITCHEN COUNTER TOP RECEPTACLES, CEC 210.11 (C)(2), & (C) (3).
- PROVIDE 20 AMP DEDICATED CIRCUITS FOR THE DISHWASHER, GARBAGE DISPOSAL, REFRIGERATOR, MICROWAVE AND RANGE
- RECEPTACLE OUTLETS SHALL BE LOCATED NO MORE THAN 20" ABOVE COUNTER TOP AND NO MORE THAN 12" BELOW IF COUNTER DOES NOT EXTEND MORE THAN 6" FROM BASE. PENINSULA COUNTERTOP SPACES 24" LONG OR GREATER AND SHORT DIMENSION 12" OR GREATER SHALL HAVE AT LEAST ONE RECEPTACLE.
- ALL KITCHEN RECEPTACLES SHALL BE GFCI PROTECTED. CEC 210(A) 5 & 6.
- THE KITCHEN COUNTERTOP WALLS SHALL BE NO MORE THAN 24" FROM A GFCI OUTLET. THIS DOES NOT APPLY TO ANY COUNTERTOP WALLS BEHIND SINKS, RANGES OR MOUNTED COOKTOPS.
- THE UNDERCOUNTER ELECTRICAL OUTLET SERVING THE DISHWASHER SHALL BE GFCI PROTECTED. MULTI-WIRE DUPLEX RECEPTACLES FOR GARBAGE DISPOSALS & DISHWASHERS REQUIRE A COMMON TRIP BREAKER IN THE SERVICE PANELS.
- THE MAXIMUM LENGTH FOR A GARBAGE DISPOSAL CORD IS 36" AND A DISHWASHER IS 48". ATTACHMENT PLUG AND RECEPTACLE SHALL BE ACCESSIBLE AND LABELED.
- ISLANDS OR PENINSULAS REQUIRE AT LEAST 1 RECEPTACLE. RECEPTACLES MAY NOT BE MORE THAN 12" BELOW THE COUNTER SURFACE OR BE BELOW A COUNTER THAT EXTENDS MORE THAN 6" BEYOND A CABINET'S END.
- A MINIMUM OF 3'-0" CLEARANCE IS REQUIRED BETWEEN THE COUNTER FRONTS AND APPLIANCES, OR COUNTER FRONTS AND WALLS.
- DIMMERS OR VACANCY SENSORS ARE REQUIRED TO CONTROL ALL HIGH-EFFICACY LUMINAIRES, EXCEPT CLOSETS LESS THAN 70 SQ FT & HALLWAYS
- ALL NEW RECESSED LIGHTING SHALL COMPLY WITH THE REFERENCE JOINT APPENDIX JAB AND SHALL NOT CONTAIN SCREW BASE SOCKET. CA ENERGY SECTIONS 150.0 (K) 1 C.
- RECESSED LIGHTING FIXTURES TO BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC) IN ACCORDANCE W/ CEC 150(K)(L)(A).
- ALL PROPOSED LIGHTING TO BE HIGH EFFICACY IN ACCORDANCE WITH CEC 150, 0 (K)(L)(A)
- ALL NEW OUTDOOR LIGHTING, IF ANY, IS TO BE HIGH-EFFICACY, TO BE CONTROLLED BY AN ON/OFF SWITCH AND INCLUDE ONE OF THE FOLLOWING PER CA ENERGY CODE SECTION 150.0 (K) 3A.:
 - PHOTOCELL AND MOTION SENSOR
 - PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL
 - ASTRONOMICAL TIME CLOCK CONTROL.
 - ENERGY MANAGEMENT CONTROL SYSTEM

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

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CODE & CONSTRUCTION NOTES

A0.2

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

Y NA RESPON PARTY YES APPLICABLE RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	NA	RESPON PARTY

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.503 FIREPLACES

4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the applicable standards unless more stringent local or regional air pollution or air quality management district rules apply:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507.

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

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

- Manufacturer's product specification.
- Field verification of on-site product containers.

TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2}

(Less Water and Less Exempt Compounds in Grams per Liter)

ARCHITECTURAL APPLICATIONS	VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.2 - SEALANT VOC LIMIT

(Less Water and Less Exempt Compounds in Grams per Liter)

SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS_{1,2}

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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TABLE 4.504.5 - FORMALDEHYDE LIMITS:

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ¹	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:

- Carpet and Rug Institute's Green Label Plus Program.
- California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350).
- NSF/ANSI 140 at the Gold level.
- Scientific Certifications Systems Indoor Advantage[®] Gold.

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

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:

- Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," in Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).
- Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.
- Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350).

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

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

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European G36 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
- Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL

4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:

- A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
- Other equivalent methods approved by the enforcing agency.
- A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

- Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
- Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped of each piece verified.
- At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

- Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
- Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.
 - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

- For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
- Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

4.507 ENVIRONMENTAL COMFORT

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
- Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
- Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.

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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.
- Public utility training programs.
- 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:

- Certification by a national or regional green building program or standard publisher.
- 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.

Notes:

- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- 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] 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.

Revision History	
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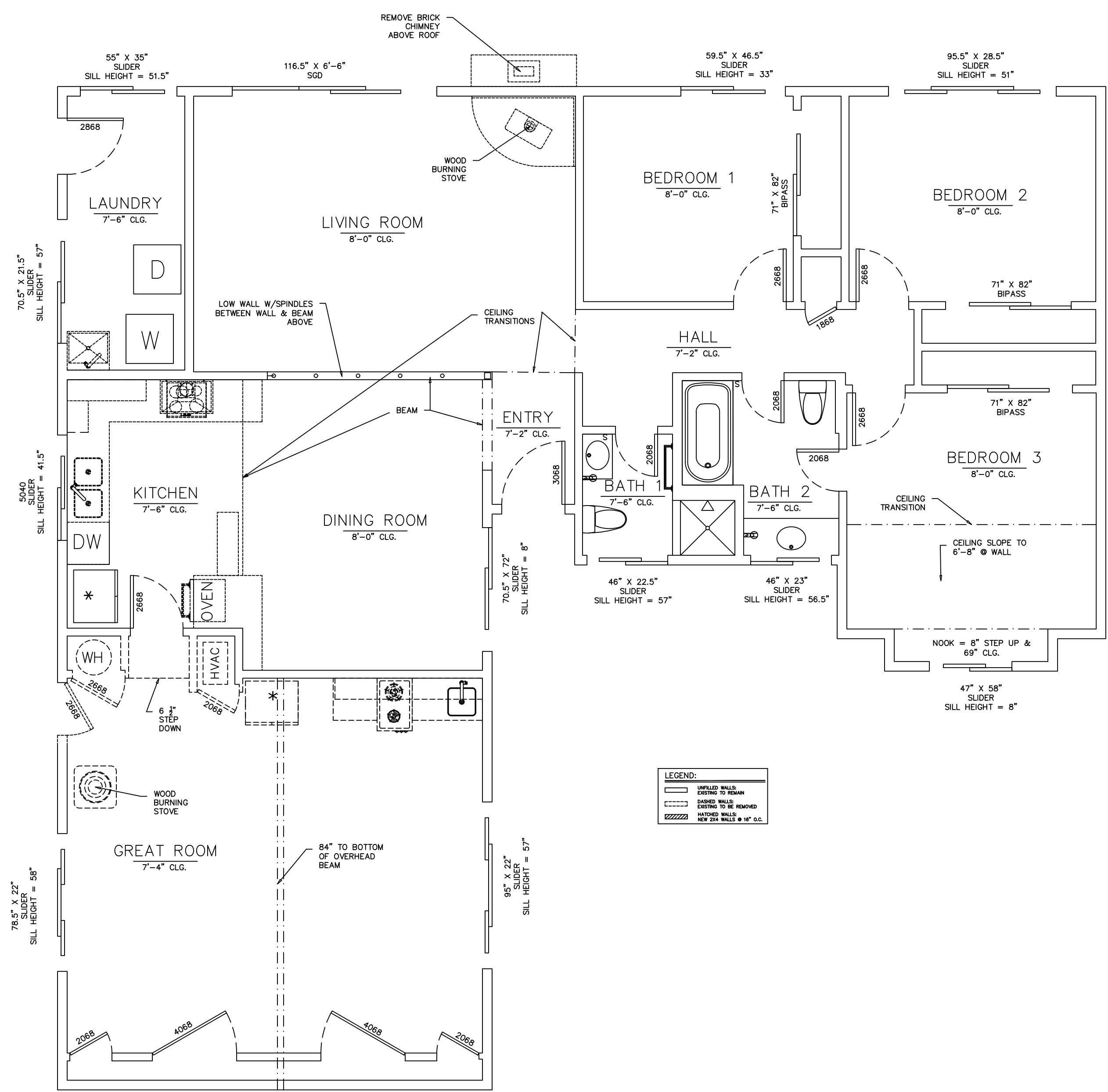
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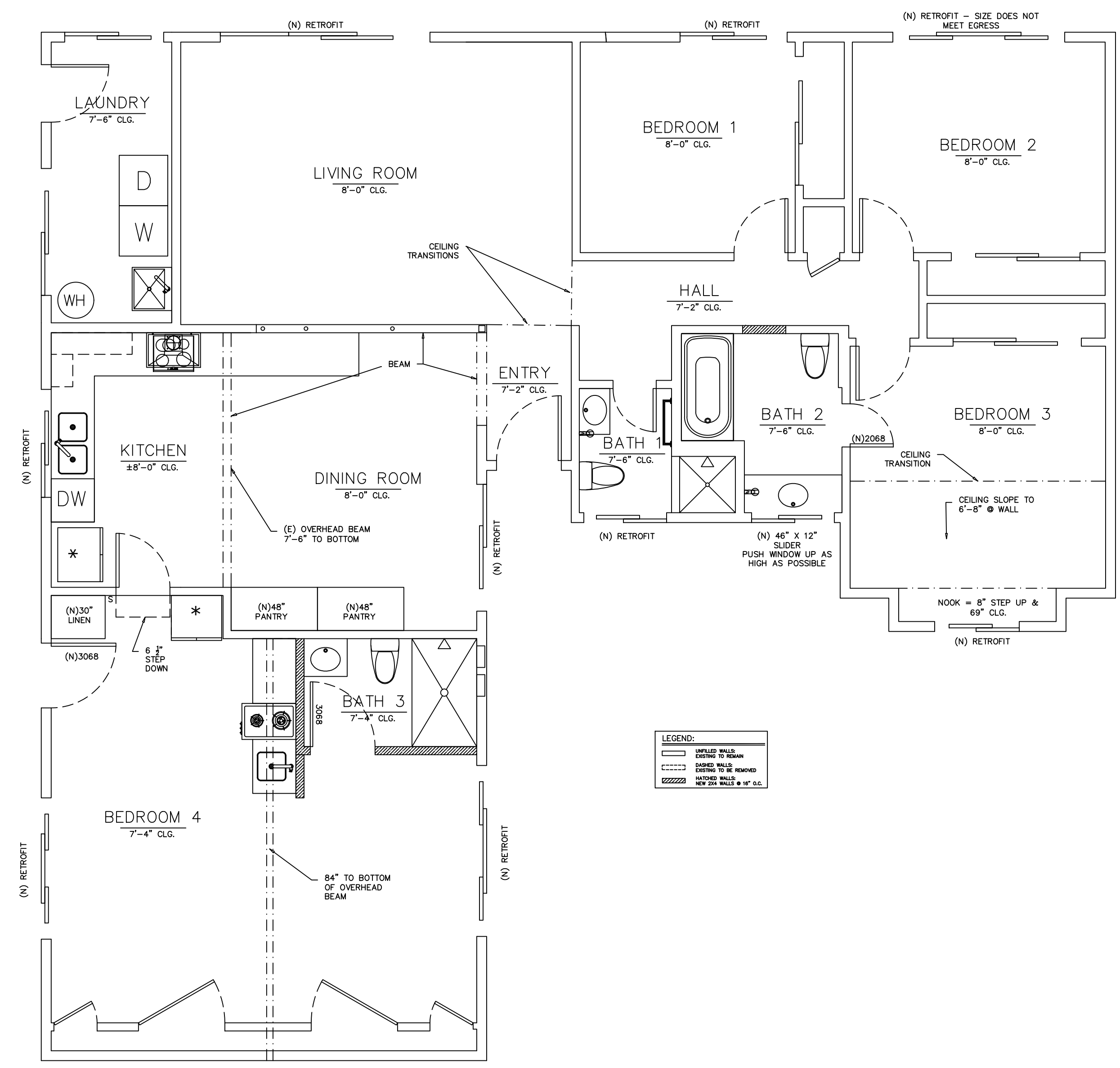
CAL GREEN REQUIREMENTS	PAGE 2
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CAL GREEN REQUIREMENTS	PAGE 2
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G1.1



(E) FLOOR PLAN & DEMO PLAN
SCALE: 1/4"=1'-0"



(N) FLOOR PLAN
SCALE: 1/4"=1'-0"

Revision History	
	AS-BUILT
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1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS

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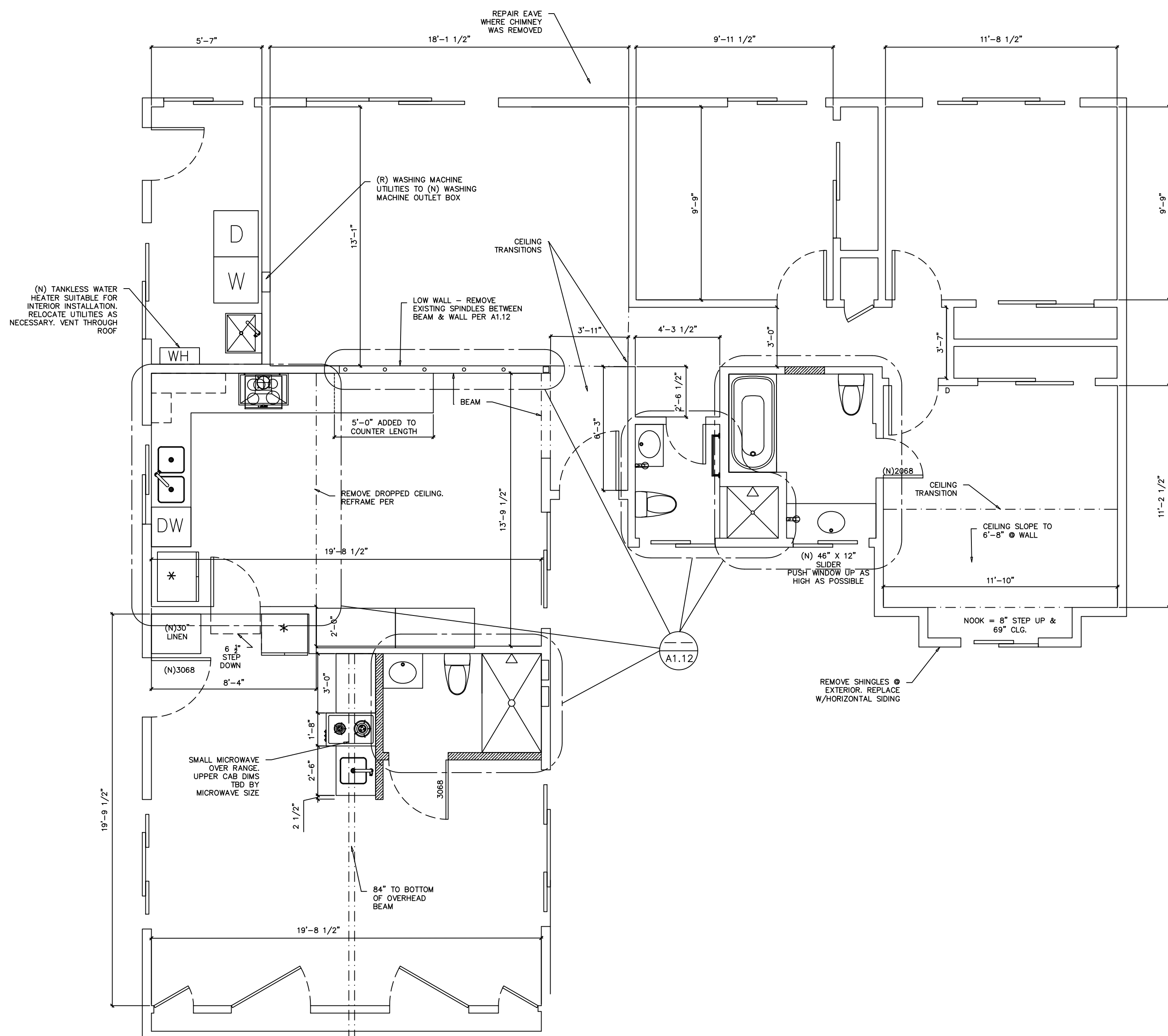
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FLOOR PLANS
&
DEMOLITION
PLAN

A1.10



CONSTRUCTION NOTES:

- SEE SHEETS A0.2, G1.0 & G1.1 FOR MANDATORY GENERAL CONSTRUCTION, ELECTRICAL, MECHANICAL, & PLUMBING REQUIREMENTS
- ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
- CONTRACTORS SHALL PROVIDE OWNER WITH ALL END USER INFORMATION & MAINTENANCE MANUALS FOR INSTALLED ITEMS & ALL OTHER REQUIRED INFORMATION DESCRIBED IN SECTION 4.410 ON SHEET G1.0 PRIOR TO BUILDING FINAL.
- ALL FINISH MATERIALS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS AS OUTLINED IN SECTION 4.504 ON SHEETS G1.0 & G1.1, INCLUDING (BUT NOT LIMITED TO) ADHESIVES, SEALANTS, CAULKS, PAINTS, STAINS, COATINGS, CARPET & CARPET SYSTEMS, RESILIENT FLOORING, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD, PLYWOOD. DOCUMENTATION IS REQUIRED AS SPECIFIED IN SECTION 4.504.2.4 ON SHEET G1.0.
- MOISTURE CONTENT OF BUILDING MATERIALS SHALL BE VERIFIED AND DOCUMENTATION PROVIDED TO THE ENFORCING AGENCY AS OUTLINED IN SECTION 4.505.3 ON SHEET G1.1. DO NOT CLOSE ANY CONSTRUCTION PRIOR TO VERIFICATION.

PLUMBING NOTES:

- SEE SHEETS A0.2, G1.0 & G1.1 FOR MANDATORY PLUMBING REQUIREMENTS AND FIXTURE SPECIFICATIONS
- PER CAL GREEN REQUIREMENTS: ALL NEW & EXISTING PLUMBING FIXTURES MUST MEET WATER CONSERVING LOW RATES MANDATED ON SHEET G1.0. ALL EXISTING NON-COMPLIANT FIXTURES THAT ARE NOT REMOVED MUST BE REPLACED.

MECHANICAL NOTES:

- SEE SHEETS A0.2, G1.0 & G1.1 FOR MANDATORY MECHANICAL REQUIREMENTS AND SPECIFICATIONS
- (N) EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. FAN MUST BE CONTROLLED BY A HUMIDITY CONTROL. HUMIDITY CONTROL SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE LESS THAN OR EQUAL TO 50% TO A MAXIMUM OF 80%. HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN)
- (N) CLOTHES DRYER VENT CMC 504.4 & 502.2.1: A CLOTHES DRYER EXHAUST DUCT SHALL NOT BE CONNECTED TO A VENT CONNECTOR, GAS VENT, CHIMNEY, AND SHALL NOT TERMINATE INTO A CRAWL SPACE, ATTIC, OR OTHER CONCEALED SPACE. EXHAUST DUCTS SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENING MEANS THAT EXTEND INTO THE DUCT AND THAT ARE CAPABLE OF CATCHING LINT, AND THAT REDUCE THE EFFICIENCY OF THE EXHAUST SYSTEM. EXHAUST DUCTS SHALL BE CONSTRUCTED OF RIGID METALLIC MATERIAL. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SHALL BE LISTED FOR THAT APPLICATION OR INSTALLED IN ACCORDANCE WITH THE CLOTHES DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CLOTHES DRYER EXHAUST DUCTS SHALL TERMINATE TO THE OUTSIDE OF THE BUILDING NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENINGS INTO THE BUILDING, AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION DEVICES, SUCH AS FIRE OR SMOKE DAMPERS, THAT WILL OBSTRUCT THE FLOW OF THE EXHAUST SHALL NOT BE USED. WHERE JOINING OF DUCTS, THE MALE END SHALL BE INSERTED IN THE DIRECTION OF AIRFLOW. ENVIRONMENTAL EXHAUST DUCTS SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY
- DURING CONSTRUCTION, ALL NEW OR EXISTING DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST OR DEBRIS WHICH MAY ENTER THE SYSTEM.

GREATROOM NOTES:

- REMOVE (E) DOOR TO EXTERIOR & REPLACE WITH (N)3068 DOOR
- STRIP PANELING. PATCH DRYWALL AS NEEDED.
- INSTALL NEW RECEPTACLES TO CODE
- RELOCATE FURNACE TO ATTIC
- RELOCATE WATER HEATER TO LAUNDRY ROOM
- INSTALL MINI-SPLIT
- ADD NEW RECEPTACLES IN BEDROOMS AT LOCATIONS SPECIFIED BY OWNER (2+ PER BEDROOM)
- ADD 4 RECESSED LIGHTS PER BEDROOM.
- INSTALL FLOORING
- INSTALL BASEBOARDS.
- PAINT

KITCHEN NOTES:

- REMOVE EXISTING COUNTER TOPS & CABINETS
- INSTALL NEW CABINETS - LIKE-FOR-LIKE CHANGE-OUT WITH THE EXCEPTION OF THE 5' COUNTER & CABINET ADDITION & 2 NEW 48" PANTRIES
- INSTALL NEW COUNTER TOPS W/4" SPLASH TO MATCH TOP
- INSTALL NEW SINK AND FAUCET - SEE CAL GREEN SHEET G1.0, SECTION 4.303.2 FOR FIXTURE REQUIREMENTS
- REMOVE DROPPED CEILING. RE-FRAME AND FINISH W/DRYWALL
- PREP & PAINT (E) CABINETS. INSTALL NEW PULLS & HANDLES
- INSTALL NEW HOOD OVER RANGE
- INSTALL FLOORING
- INSTALL BASEBOARDS.
- PAINT

GENERAL NOTES:

- NEW VINYL PLANK FLOORING THROUGHOUT
- LESS BATHROOMS WHICH ARE TO BE TILE
- NEW PAINT THROUGHOUT
- REMOVE EXISTING MULTI-LAYERED ROOFING. INSTALL NEW 50-YEAR ROOFING. REPLACE EAVE BOARDS AS NEEDED
- REPLACE EXISTING GUTTERS
- INSTALL NEW INSULATION
- REPLACE ALL WINDOWS WITH RETROFIT WINDOWS
- REBUILD BEDROOM CLOSET SHELVING AND INSTALL NEW HANGER BARS
- ADD NEW RECEPTACLES IN BEDROOMS AT LOCATIONS SPECIFIED BY OWNER (2+ PER BEDROOM)
- ADD 4 RECESSED LIGHTS PER BEDROOM.
- REPLACE EXISTING SWITCH W/DIMMER
- RELOCATE WATER HEATER TO LAUNDRY ROOM
- RELOCATE FURNACE TO ATTIC SPACE
- REMOVE WHOLE HOUSE VACUUM ASSEMBLY FROM LAUNDRY ROOM
- REPLACE UTILITY SINK IN LAUNDRY ROOM
- REPLACE ENTRY DOOR TO LAUNDRY ROOM
- CHECK ENTIRE FOUNDATION FOR DAMAGE
- REMOVE BRICK CHIMNEY ABOVE ROOF
- REPAIR EAVE AND INSTALL NEW ROOFING WHERE CHIMNEY WAS REMOVED. (E) FIREPLACE HAS BEEN ABANDONED AND IS CURRENTLY WALLED OVER.

LAUNDRY ROOM NOTES:

- INSTALL NEW SINK AT INDICATED LOCATION
- RELOCATE WASHING MACHINE UTILITIES TO (N) WASHING MACHINE OUTLET BOX
- RELOCATE WASHING MACHINE HEATER. RELOCATE UTILITIES AS NEEDED
- VERIFY 100 SQ IN (MIN) MAKE-UP AIR VENTING THROUGH EXISTING ROOM VENTS. IF INADEQUATE, PROVIDE 100 SQ IN MIN THROUGH WALL OR DOOR VENTS

LEGEND:

[Solid line]	UNFILLED WALLS: EXISTING TO REMAIN
[Dashed line]	DASHED WALLS: EXISTING TO BE REMOVED
[Hatched area]	HATCHED WALLS: NEW 2X4 WALLS @ 16" O.C.

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
①	PLAN REVIEW COMMENTS
②	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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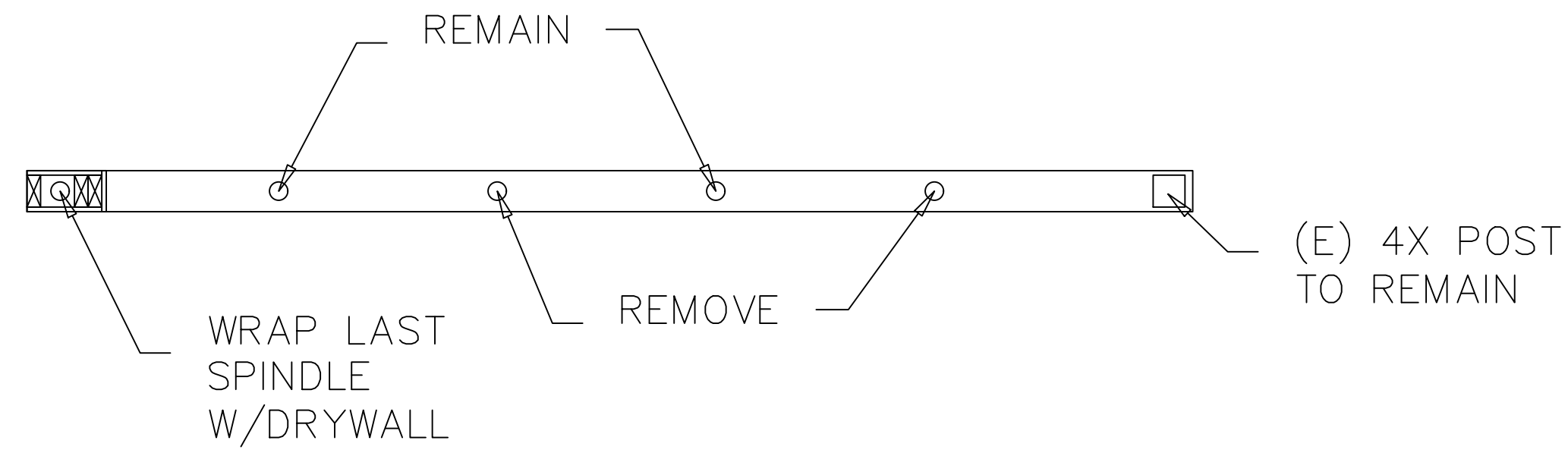
Drawing By:
Chris Klimen
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PH: 510.928.1359

Peter Christopher Klimen
DIGITALLY SIGNED BY PETER CHRISTOPHER KLIMEN
EMAIL: KLIMEN@ATT.NET DATE: 00/00/00

CONSTRUCTION PLAN

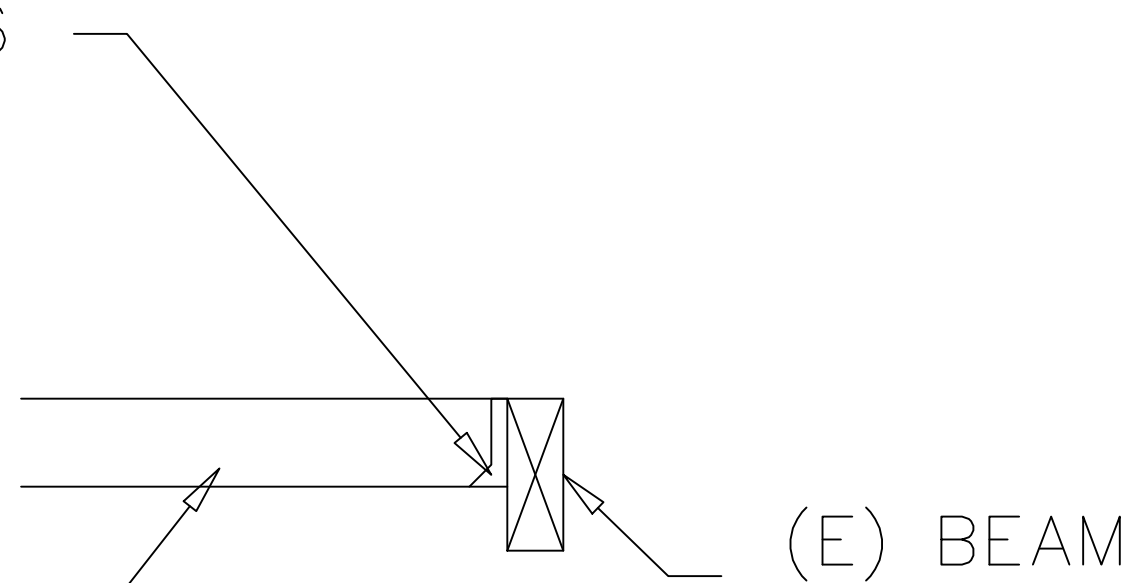
A1.11

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



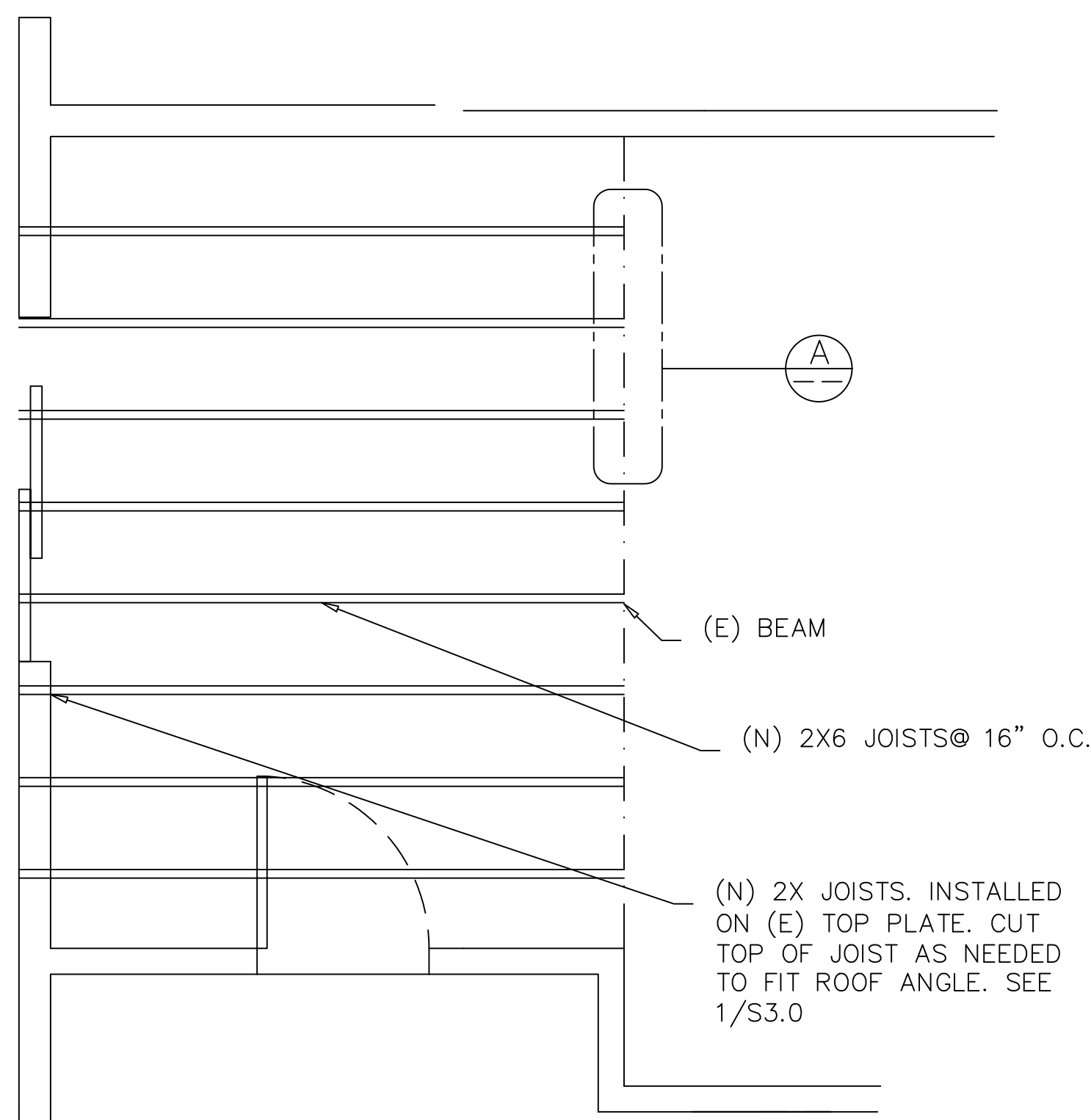
SPINDLE REMOVAL
SCALE: 3/4"=1'-0"

(N) SIMPSON LUS26

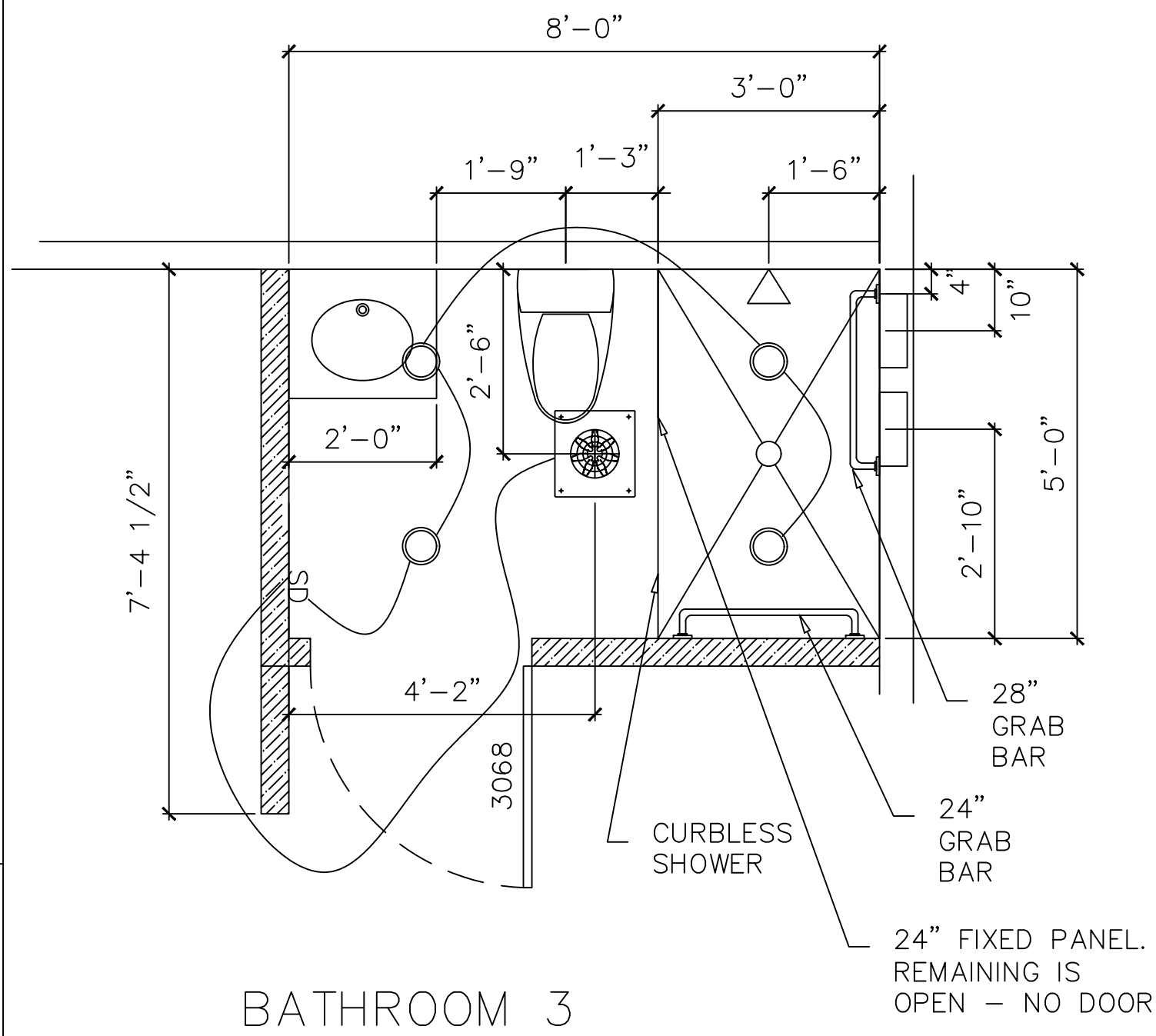


(N) 2X6 JOISTS @ 16" O.C.

(A) (N) JOIST CONNECTION @ BEAM
SCALE: 1"=1'-0"



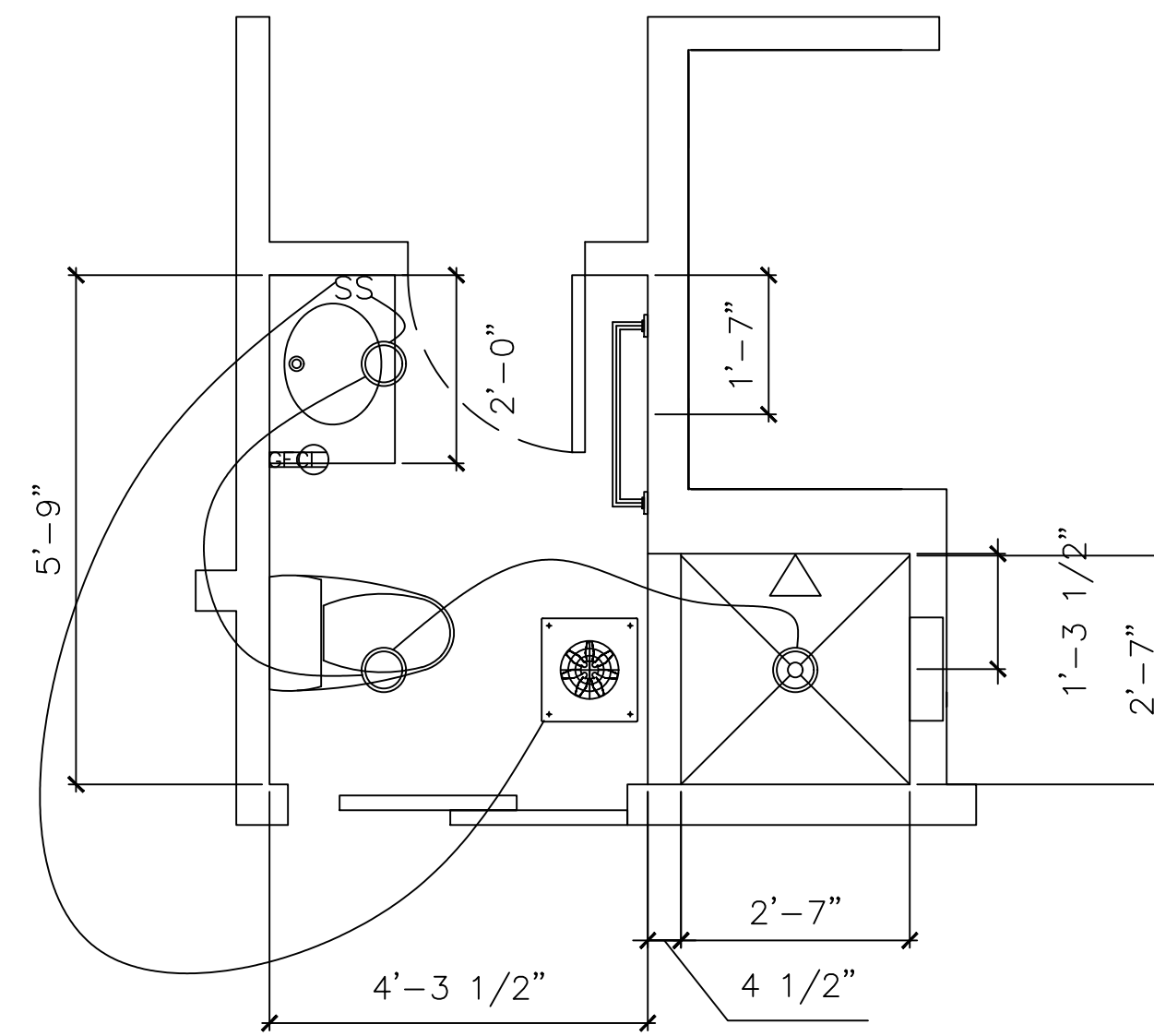
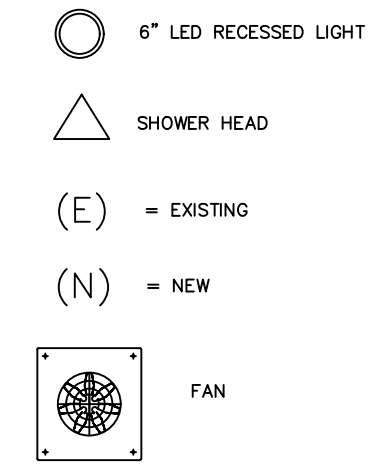
KITCHEN CEILING



BATHROOM 3

- BATHROOM 3 NOTES:
- INSTALL NEW PLUMBING AS NEEDED FOR NEW VANITY SINK, TOILET, & SHOWER
 - INSTALL NEW VANITY, VANITY TOP, SINK, & FIXTURE
 - INSTALL NEW TOILET
 - INSTALL NEW CURBLESS SHOWER PAN PER PLAN
 - INSTALL 12"x12" SHAMPOO NICHE @ 40" FROM FINISHED FLOOR TO BOTTOM OF NICHE AND PER DIMENSIONS SHOWN
 - INSTALL 28" GRAB BAR AT DIMENSION INDICATED. INSTALL 24" GRAB BAR CENTERED IN SHOWER.
 - INSTALL BOTH @ 34" TO CENTER. INSTALL BLOCKING AS NEEDED
 - INSTALL SHOWER HEAD @ 7" FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - INSTALL MIXING VALVE @ 48" FROM FINISHED FLOOR AND DIRECTLY BELOW SHOWER HEAD
 - INSTALL HANDHELD SHOWER @ LOCATION SPECIFIED BY OWNER
 - CENTER MIXING VALVE AND SHOWER HEAD IN SHOWER
 - INSTALL RECESSED LIGHT FIXTURES
 - INSTALL FAN
 - INSTALL SWITCHES 46" TO CENTER FROM FINISHED FLOOR
 - INSTALL TILE TO SHOWER PAN, SHOWER SURROUND, & FLOOR
 - INSTALL BASEBOARDS
 - TILE @ SHOWER SURROUND TO CEILING
 - PAINT

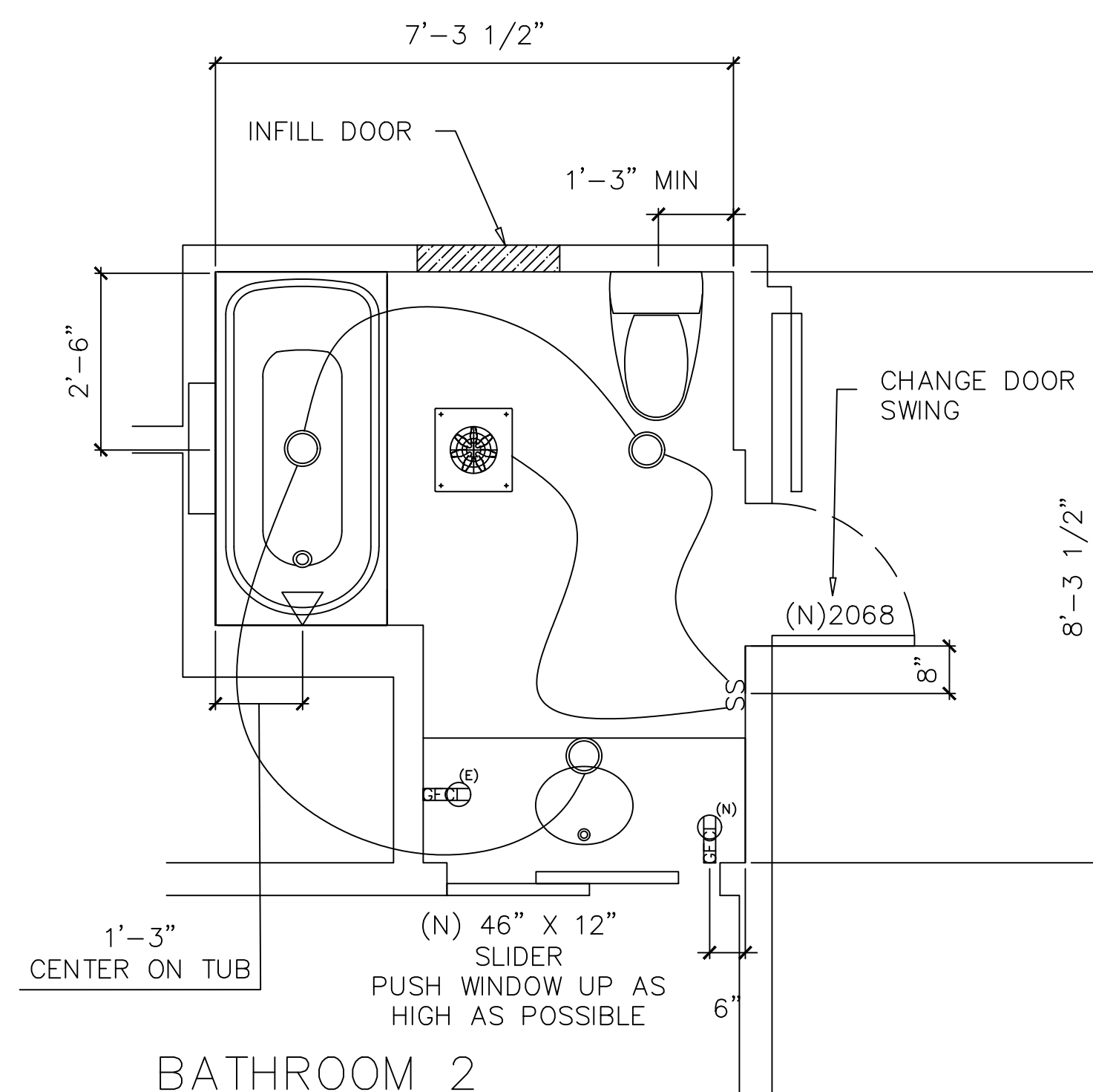
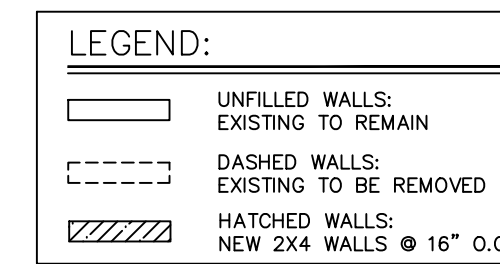
FLOOR TILE -
SHOWER PAN: 15 SQ FT - INCLUDES 10% OVERAGE
SHOWER SURROUND: 90 SQ FT - INCLUDES 10% OVERAGE (TILE TO CEILING)
FLOOR: 27.5 SQ FT - INCLUDES 10% OVERAGE (INCLUDES TILE UNDER VANITY)
BASEBOARD: 13 LF - INCLUDES 10% OVERAGE
WALL PAINT:
CEILING PAINT:



BATHROOM 1

- BATHROOM 1 NOTES:
- REMOVE TIMER DIAL ADJACENT TO SWITCH
 - INSTALL NEW PLUMBING AS NEEDED FOR NEW VANITY SINK, TOILET, & SHOWER
 - INSTALL NEW VANITY, VANITY TOP, SINK, & FIXTURE
 - INSTALL NEW TONEL BAR @ 48" FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - REPLACE EXISTING MEDICINE CABINET WITH NEW
 - ADD NEW SWITCH TO EXISTING FOR FAN
 - INSTALL NEW TOILET
 - INSTALL NEW SHOWER
 - INSTALL 12"x14" SHAMPOO NICHE @ 40" FROM FINISHED FLOOR TO BOTTOM OF NICHE AND PER DIMENSIONS SHOWN
 - INSTALL SHOWER HEAD @ 7" FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - INSTALL MIXING VALVE @ 48" FROM FINISHED FLOOR AND DIRECTLY BELOW SHOWER HEAD
 - CENTER MIXING VALVE AND SHOWER HEAD IN SHOWER
 - INSTALL RECESSED LIGHT FIXTURES
 - INSTALL FAN
 - INSTALL TILE TO SHOWER PAN, SHOWER SURROUND, & FLOOR
 - INSTALL BASEBOARDS
 - TILE @ SHOWER SURROUND TO CEILING
 - PAINT

FLOOR TILE -
SHOWER PAN: 8.5 SQ FT - INCLUDES 10% OVERAGE
SHOWER SURROUND: 74 SQ FT - INCLUDES 10% OVERAGE (TILE TO CEILING)
FLOOR: 27 SQ FT - INCLUDES 10% OVERAGE (INCLUDES TILE UNDER VANITY)
BASEBOARD: 18 LF - INCLUDES 10% OVERAGE
WALL PAINT:
CEILING PAINT:



BATHROOM 2

- BATHROOM 2 NOTES:
- RELOCATE TOILET ROUGH-IN AS NEEDED TO PROVIDE CODE REQUIRED CLEARANCE
 - INSTALL NEW PLUMBING AS NEEDED FOR NEW VANITY SINK, TOILET, & SHOWER
 - INSTALL NEW VANITY, VANITY TOP, SINK, & FIXTURE
 - INSTALL NEW DOOR. CHANGE SWING AS INDICATED
 - INFILL DOOR AS INDICATED
 - INSTALL NEW TOILET
 - INSTALL NEW SHOWER
 - INSTALL 22"x14" SHAMPOO NICHE @ 40" FROM FINISHED FLOOR TO BOTTOM OF NICHE AND PER DIMENSIONS SHOWN
 - INSTALL SHOWER HEAD @ 7" FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - INSTALL MIXING VALVE @ 48" FROM FINISHED FLOOR AND DIRECTLY BELOW SHOWER HEAD
 - CENTER MIXING VALVE AND SHOWER HEAD IN SHOWER
 - RELOCATE SWITCHES. INSTALL SWITCHES 46" TO CENTER FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - INSTALL NEW GFCI RECEPTACLE PER DIMENSION SHOWN. MATCH ELEVATION TO EXISTING
 - INSTALL RECESSED LIGHT FIXTURES
 - INSTALL FAN
 - INSTALL TILE TO SHOWER PAN, SHOWER SURROUND, & FLOOR
 - INSTALL BASEBOARDS
 - TILE @ SHOWER SURROUND TO CEILING
 - PAINT

FLOOR TILE -
SHOWER SURROUND: 65 SQ FT - INCLUDES 10% OVERAGE (TILE TO CEILING)
FLOOR: 43.5 SQ FT - INCLUDES 10% OVERAGE (INCLUDES TILE UNDER VANITY)
BASEBOARD: 22 LF - INCLUDES 10% OVERAGE
WALL PAINT:
CEILING PAINT:

ENLARGED CONSTRUCTION PLANS
SCALE: 1/2"=1'-0"

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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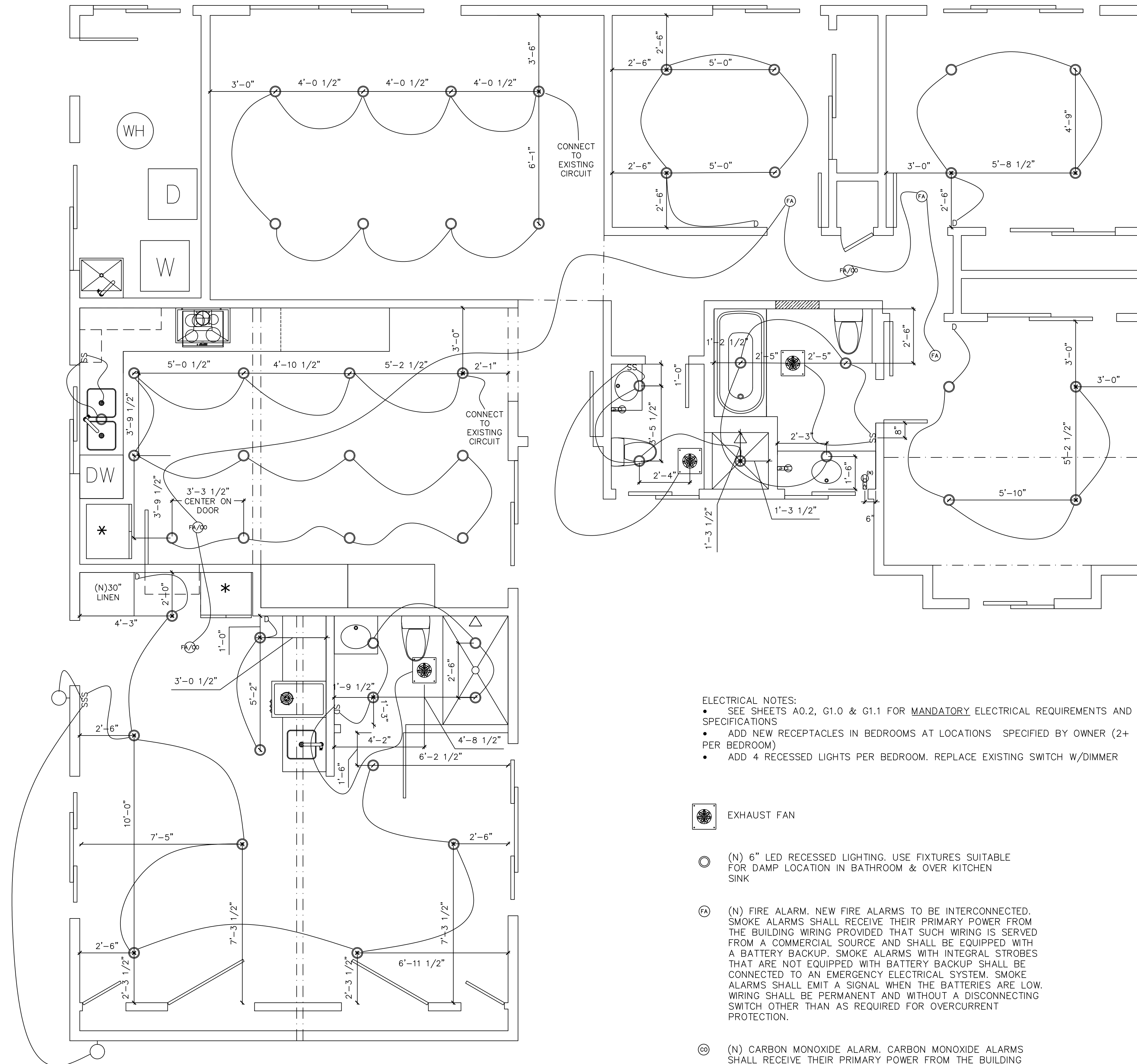
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Peter Christopher Klimen

DIGITALLY SIGNED BY PETER CHRISTOPHER KLIMEN
EMAIL: KLIMEN@ATT.NET DATE: 00/00/00





ENLARGED
CONSTRUCTION
PLANS

A1.12



ELECTRICAL NOTES:

- SEE SHEETS A0.2, G1.0 & G1.1 FOR MANDATORY ELECTRICAL REQUIREMENTS AND SPECIFICATIONS
- ADD NEW RECEPTACLES IN BEDROOMS AT LOCATIONS SPECIFIED BY OWNER (2+ PER BEDROOM)
- ADD 4 RECESSED LIGHTS PER BEDROOM. REPLACE EXISTING SWITCH W/DIMMER

-  EXHAUST FAN
-  (N) 6" LED RECESSED LIGHTING. USE FIXTURES SUITABLE FOR DAMP LOCATION IN BATHROOM & OVER KITCHEN SINK
-  (N) FIRE ALARM. NEW FIRE ALARMS TO BE INTERCONNECTED. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
-  (N) CARBON MONOXIDE ALARM. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.

ELECTRICAL PLAN
SCALE: 3/8"=1'-0"

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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ELECTRICAL PLAN

E1.10