SINGLE FAMILY HOUSE

NAPA, CA 94559



SHEET INDEX

GENERAL

A0.00	COVER SHEET
A0.01	SITE PLAN
A0.02	FLOOR PLAN
A0.03	ROOF PLAN
A0.04	ELEVATIONS
A0.05	EXTERIOR VIEWS
A0.06	SCHEDULES

ARCHITECTURAL

A1.00	FIRST FLOOR PLAN
A1.01	DIMENSION PLAN
A1.02	REFLECTED CEILING PLAN
A1.03	ROOF PLAN
A2.00	EXTERIOR ELEVATIONS
A2.01	BUILDING SECTIONS
A3.00	DOOR & WINDOW SCHEDULES
A3.01	INTERIOR DETAILS
A3.02	EXTERIOR DETAILS

STRUCTURAL

S0.00	GENERAL NOTES
S1.00	FOUNDATION PLAN
S1.01	FOUNDATION DETAILS
S2.00	FLOOR FRAMING PLAN
S2.01	ROOF FRAMING PLAN
S3.00	STRUCTURAL DETAILS

MECHANICAL

M0.00	MECHANICAL NOTES
M1.00	HVAC PLAN
M1.01	HVAC DETAILS

PLUMBING

P0.00	PLUMBING NOTES
P1.00	WATER SUPPLY PLAN
P1.01	SANITARY PLAN
P1.02	PLUMBING DETAILS
P1.03	FIXTURE SCHEDULE

ELECTRICAL

E0.00	ELECTRICAL NOTES
E1.00	FIRST FLOOR POWER PLAN
E1.01	LIGHTING PLAN
E1.02	PANEL SCHEDULES
E1.03	ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 CALIFORNIA BUILDING CODE (CBC) AND ALL LOCAL CODES AND ORDINANCES APPLICABLE TO THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK.
3. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, OMISSIONS, OR CONFLICTS IN THE DRAWINGS IMMEDIATELY.
5. ALL WORK SHALL BE PEFORMED IN A GOOD AND WORKMANLIKE MANNER BY QUALIFIED TRADESPERSONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS.
7. ALL MATERIALS, EQUIPMENT, AND INSTALLATIONS SHALL BE NEW AND SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, ARCHITECT, AND OTHER CONSULTANTS.
9. PROVIDE TEMPORARY FACILITIES, SHORING, AND PROTECTION AS REQUIRED DURING CONSTRUCTION.
10. THE SITE SHALL BE KEPT CLEAN AND FREE OF DEBRIS. CONTRACTOR SHALL PROVIDE ADEQUATE DUST, EROSION, AND STORMWATER CONTROL MEASURES.
11. ALL SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING FOR REVIEW AND APPROVAL BY THE ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.
12. THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK TO AVOID CONFLICTS.
13. ALL EXTERIOR FINISHES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND SHALL BE COMPATIBLE WITH THE BUILDING DESIGN.
14. PROVIDE FIREBLOCKING, DRAFTSTOPPING, AND OTHER LIFE SAFETY FEATURES AS REQUIRED BY CODE.
15. ALL CONSTRUCTION SHALL INCLUDE ADEQUATE INSULATION, VENTILATION, AND ENERGY EFFICIENCY MEASURES IN ACCORDANCE WITH TITLE 24.
16. THE CONTRACTOR SHALL MAINTAIN A SAFE WORK SITE AND SHALL COMPLY WITH ALL OSHA REQUIREMENTS.
17. ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEANING AND OWNER ACCEPTANCE.
19. THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CETRIX DESIGN AND SHALL NOT BE USED, REPRODUCED, OR DISTRIBUTED WITHOUT WRITTEN AUTHORIZATION.
20. ALL WORK SHALL BE SUBJECT TO FIELD INSPECTION AND APPROVAL BY THE BUILDING OFFICIAL.

CETRIX DESIGN

A Cetrix Technologies LLC company

PROJECT:
SINGLE FAMILY HOUSE

PROJECT LOCATION:
Napa, CA 94559

CLIENT:
PRIVATE RESIDENCE

CONSULTANTS:
STRUCTURAL:

MECHANICAL:

PLUMBING:

ELECTRICAL:

SINGLE FAMILY HOUSE
Napa, CA 94559

MARK	DATE	DESCRIPTION

ISSUE:	SCHEMATIC DESIGN
PROJECT NO:	24-001
CAD FILE:	24-001_A0.00
DATE:	2024-10-08
DRAWN BY:	J. SMITH
CHECKED BY:	M. JOHNSON
COPYRIGHT:	© 2024 CETRIX DESIGN

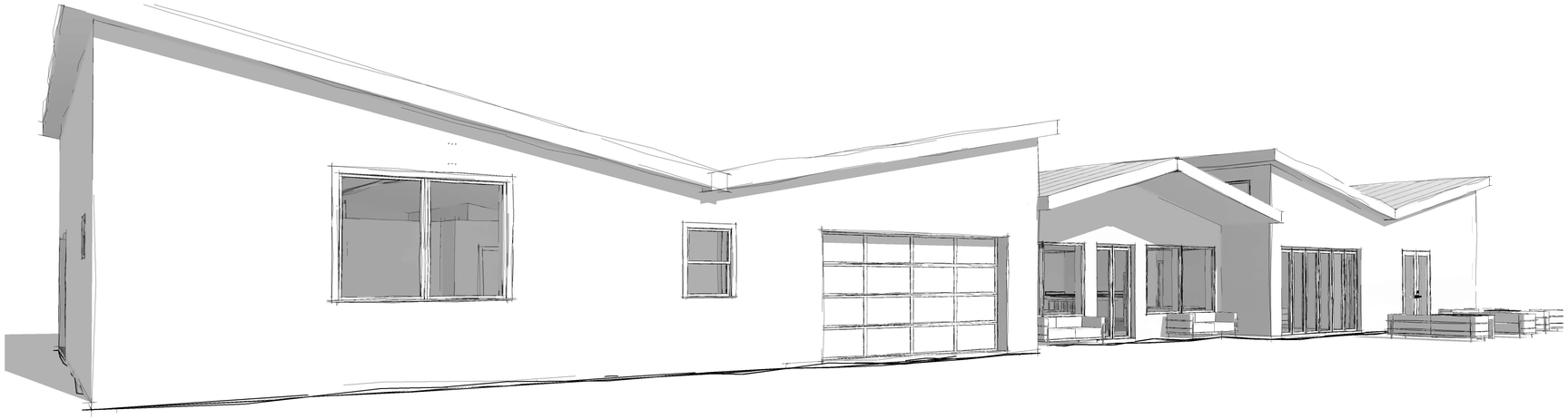
SHEET TITLE:

COVER SHEET

DRAWING SHEET NO:

A0.00

SINGLE FAMILY HOUSE



1 3D View 1

CODE AUTHORITIES

ALL WORK TO CONFORM TO THE FOLLOWING REQUIREMENTS:

1. 2019 CALIFORNIA BUILDING CODE (C.B.C.) STRUCTURAL ONLY,
2. 2019 CALIFORNIA RESIDENTIAL CODE (C.R.C.),
3. 2016 CALIFORNIA MECHANICAL CODE (C.M.C),
4. 2016 CALIFORNIA PLUMBING CODE (C.P.C),
5. 2016 CALIFORNIA ELECTRICAL CODE (C.E.C),
6. 2016 CALIFORNIA ENERGY CODE (C.E.C.)
7. 2016 BUILDING ENERGY EFFICIENCY STANDARDS,
8. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)

PROJECT INFORMATION

PROJECT ADDRESS:
ZONING:
CONSTRUCTION TYPE: V-B
LOT SIZE:

SHEET INDEX

A0-00	COVER SHEET
A0-01	SITE PLAN
A0-02	FLOOR PLAN
A0-03	ROOF PLANS
A0-04	ELEVATIONS
A0-05	ISOMETRIC VIEWS
A0-06	SCHEDULES

SHEET INDEX

E0-00	ELECTRICAL NOTES
E0-01	1ST FLOOR POWER PLAN
E0-02	1ST LIVING LL LIGHTING PLAN
E0-03	PANEL SCHEDULES & DETAILS

SHEET INDEX

M0-00	MECHANICAL NOTES
M0-01	FLOOR MECHANICAL PLANS
M0-03	3D VIEW
P0-00	PLUMBING NOTES

SHEET INDEX

P0-01	WATER SUPPLY PLANS
P0-02	SANITARY PLANS
P0-03	RISER DIAGRAMS
S00-01	STRUCTURAL NOTES
S0-02	SLAB PLAN

SHEET INDEX

S0-03	FIRST FLOOR STR PLAN
S0-04	ROOF FRAMING PLAN
S0-05	DETAILS
S0-06	DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2016 CBC, 2012 IECC AND ALL LOCAL CODES AND ORDINANCES, AND ALL OTHER STATE RULES AND REGULATIONS, AS WELL AS ALL CITY, COUNTY AND FEDERAL RULES, REGULATIONS, ORDINANCES, SAFETY LAWS AND SANITARY ORDINANCES. IF THE DRAWINGS AND/OR THE SPECIFICATIONS ARE AT VARIANCE THEREWITH, THE CONTRACTOR SHALL SO NOTIFY THE ARCHITECT IMMEDIATELY

2. SLOPE GRADE AWAY FROM STRUCTURE A MIN. OF 5% FOR 5 FEET.

3. ROOF AND DECK DOWNSPOUTS, FOUNDATION PERIMETER DRAIN LINE, DRIVEWAY AND PATIOS SHALL BE CONNECTED TO A SUBTERRANEAN SYSTEM WHERE REQUIRED BY CURRENT STORM DRAINAGE ORDINANCE.

4. PRIOR TO INSPECTION OF ROOF FRAMING, ENGINEERED CALCULATIONS FOR THE MANUFACTURED ROOF TRUSSES, AS PER PLAN, WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR APPROVAL.

5. THE GENERAL NOTES ARE COMPLEMENTARY TO THE GENERAL CONDITIONS AND SPECIFICATIONS. SHOULD CONFLICTS OCCUR, THEY SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.

6. SHOULD CONFLICTS OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS, DRAWINGS SHALL GOVERN IN MATTERS OF DIMENSION OR QUANTITY; SPECIFICATIONS SHALL GOVERN IN MATTERS OF MATERIALS, INSTALLATION OR FINISHES.

7. DURING CONSTRUCTION, REPORT ALL DISCREPANCIES AND/OR CONFLICTS IN THE DRAWINGS TO THE ARCHITECT IMMEDIATELY.

8. VERTICAL AND HORIZONTAL FIRE BLOCKING SHALL CONFORM TO CBC R608.2.

9. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE WORK. EXCLUSION OF AN ITEM OR ITEMS DOES NOT IMPLY OMISSION. THE CONTRACTOR'S RESPONSIBILITY IS TO NOTIFY THE ARCHITEC T & OWNER OF THESE OMISSIONS PRIOR TO THE SUBMISSION OF BIDS. THE CONTRACTOR SHALL COMPLY WITH THE SPIRIT AND INTENT OF THESE DOCUMENTS AND SHALL COMPLETE THE WORK SATISFACTORILY AND IN A MANNER ACCEPTABLE TO THE OWNER. THESE DOCUMENTS ILLUSTRATE THE MINIMUM STANDARDS OF CONSTRUCTION AND THE CONTRACTOR SHALL MEET OR EXCEED NORMAL CONSTRUCTION TECHNIQUES AND STANDARDS FOR A BUILDING OF THIS TYPE.

10. NEITHER THE ARCHITECT, THE ENGINEER, OR THE OWNER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF THE CONTRACTOR; SAFETY PRECAUTIONS AND PROGRAMS OF CONTRACTOR; THE ACTS OR OMISSIONS OF THE CONTRACTOR; OR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR SPECIFICATIONS.

11. VERIFY DIMENSIONS, GRADES, ELEVATIONS AND CRITICAL LOCATIONS, SUCH AS STRUCTURAL SUPPORTS, BEFORE COMMENCING WORK AFFECTED BY THEM. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.

12. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE DRAWINGS, SPECIFICATIONS AND EXISTING SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS PRIOR TO CONSTRUCTION.

13. A LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL ESTABLISH BUILDING CORNERS, STRUCTURAL COLUMNS, POSTS, GRADES AND OTHER IMPROVEMENTS IN THE FIELD.

14. MANUFACTURED MATERIALS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURES RECOMMENDATIONS, INSTRUCTIONS AND APPLICABLE ICBO REPORTS UNLESS OTHERWISE NOTED OR INSTRUCTED.

15. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST PRACTICES OF THE VARIOUS TRADES INVOLVED. ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE IN PROPER ALIGNMENT.

16. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK REQUIRING ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. FAILURE TO OBTAIN AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF THE DRAWINGS AND SPECIFICATIONS TO ALL TRADES UNDER HIS JURISDICTION.

18. SUBSTITUTIONS, REVISIONS OR CHANGES MUST HAVE PRIOR WRITTEN APPROVAL BY THE THE ARCHITECT.

19. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENT OF THE DRAWINGS OR NOTES WILL BE ACCEPTABLE AS A CONSEQUENCE OF THE ARCHITECTS FAILURE TO DISCOVER OR POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION. DEFECTIVE WORK REVEALED WITH IN THE TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT DOCUMENTS. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.

20. IN THE EVENT CERTAIN FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THE CONSTRUCTION SHALL BE SIMILAR AND OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

21. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS APPROVED BY THE BUILDING OFFICIAL. THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL NOT BE CHANGED OR MODIFIED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.

22. THE CONTRACTOR SHALL NOTIFY THE OWNER UPON COMPLETION OF THE WORK. AT THAT TIME THE OWNER SHALL COMPLETE A "PUNCH LIST" OF CORRECTIONS. THE OWNERS FINAL ACCEPTANCE WILL BE CAUSE FOR FINAL PAYMENT UNDER TERMS OF THE OWNER/CONTRACTOR AGREEMENT.

23. THE PROJECT SHALL BE LEFT COMPLETELY CLEAN AND CLEAR TO THE SATISFACTION OF THE OWNER.

24. ALL WORK AND MATERIAL SHALL BE NEW AND UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE AUTHORIZED BY THE ARCHITECT. VICINITY MAP

25. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FINAL CITY APPROVALS AND A CERTIFICATE OF OCCUPANCY.

CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

SINGLE FAMILY HOUSE

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:
CAD FILE:
DATE:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
SHEET TITLE:

COVER SHEET

DRAWING SHEET NO:

A0-00

ELECTRICAL SPECIFICATION

A. GENERAL
1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL JURISDICTION REQUIREMENTS.

B. SHOP DRAWINGS
1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: LIGHTING FIXTURES, OCCUPANCY SENSORS , RECEPTACLES AND FIRE ALARM DEVICES

C. EQUIPMENT AND DEFINITIONS
1. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.
2. UNLESS SPECIFICALLY NOTED ON THE PLANS ALL CIRCUITRY, EQUIPMENT, DEVICES, ETC., NOT NOTED EXISTING TO REMAIN OR TO BE RELOCATED SHALL BE NEW.

D. JUNCTION BOXES LABELING REQUIREMENTS
1. ALL JUNCTION BOXES FOR BRANCH CIRCUITRY SHALL BE CLEARLY LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBERS.

E. PANELBOARDS
1. PROVIDE A TYPED CIRCUIT DIRECTORY FOR THE ENTIRE PANELBOARD REVISED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PHASE BALANCE ALL PANELBOARDS AS NECESSARY.
3. THE BRANCH CIRCUITS SHOWN FOR ITEMS SERVED AS INDICATED. CONTRACTOR SHALL FIELD COORDINATE ALL BRANCH CIRCUITS ACCORDINGLY.

G. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS AND DATA OUTLETS
1. WHERE TWO OR MORE DEVICES OF THE SAME VOLTAGE ARE SHOWN TOGETHER ON THE PLANS, A GANGED PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED HORIZONTALLY BY 6" BUT SHALL BE HORIZONTALLY OR VERTICALLY ALIGNED.
2. ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.

H. LIGHTING FIXTURES
1. COORDINATE ALL LIGHTING FIXTURES WITH SPRINKLERS, MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN TO AVOID CONFLICT. GRID LAYOUT ON PLANS IS APPROXIMATE, ADJUST AND COORDINATE LIGHTING FIXTURES IN FIELD PER LIGHTING PLAN.
2. COLOR OF LIGHTING FIXTURES SHALL BE AS SELECTED BY THE OWNER.

I. BRANCH CIRCUITRY AND FEEDER
1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL BRANCH CIRCUITRY AND FEEDER SHALL COMPLY WITH THE UTEST NATIONAL ELECTRICAL CODE (N.E.C.) LOCAL JURISDICTION AND LOCAL STATE CODE REQUIREMENTS. THE FOLLOWING ARE SOME ACCEPTABLE WIRING METHOD REQUIREMENTS.

K. GENERAL NOTES IN REGARDS TO BRANCH CIRCUITRY AND FEEDER
1. USE OF ALUMINUM CONDUIT SHALL NOT BE PERMITTED.
2. ALL BRANCH CIRCUITRY AND FEEDERS SHALL BE RUN CONCEALED.
3. ALL CIRCUITRY RUNS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN FIELD THE MOST SUITABLE ROUTES.
4. MINIMUM SIZE EMT OR CONDUIT SHALL BE 3/4". UNLESS MULTIPLE HOMERUN CIRCUITS REQUIRES URGER SIZE CONDUIT.

L. WIRE AND CABLE
1. FEEDERS: FEEDER SHALL BE ALUMINUM . INSULATION SHALL BE THW OR THHN/THWN.
2. COLOR CODE: ALL WIRING SHALL BE COLOR CODED THROUGHOUT AS PER N.E.C. REQUIREMENTS.
3. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #2 AWG.
4. ALL RECEPTACLES, LIGHTING FIXTURES, MOTORS, ETC.. SHALL BE GROUNDED PER N.E.C. ALL RECEPTACLE CIRCUITS SHALL CONTAIN A #12 INSULATED GROUND CONDUCTORS
5. RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (I.E., 1,3,5) SERVING LIGHTING, GENERAL RECEPTACLES, AND MOTORS. ANY CIRCUITS SERVING, ISOLATED GROUND RECEPTACLES OR RECEPTACLES SERVING COMPUTER EQUIPMENT, WHEN THE CONTRACTOR RUN CIRCUITRY IN MULTIPLE HOMERUNS. CONTRACTOR SHALL OVERSIZE THE NEUTRAL CONDUCTOR TO A MINIMUM 200% OF THE CAPACITY OF PHASE CONDUCTORS SIZE THE EMT/CONDUIT ACCORDINGLY WHERE NECESSARY.
6. ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A MAXIMUM OR 2 - 90 DEGREES BENDS PER RUN. WHERE REQUIRED, PROVIDE PULL BOXES PER N.E.C. REQUIREMENTS.
7. FINAL CONNECTION TO ALL MOTORS OR VIBRATING EQUIPMENT SHALL BE WITH FLEXIBLE CONDUIT OR LIQUID-TIGHT FLEXIBLE CONDUIT FOR OUTDOOR.
8. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 100 LINEAR FEET HALL BE A MINIMUM OF #10 CONDUCTORS OR AS SHOWN ON THE PLANS.
9. EXPOSED AND CONCEALED CIRCUITRY SHALL BE RUN TIGHT TO CEILING SLAB IN A NEAT WORKMANLIKE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALL.

M. GROUNDING
1. PROVIDE GROUND TO ALL DEVICES PER N.E.C. REQUIREMENTS.
2. PROVIDE SERVICE GROUND CONDUCTORS SIZE PER NEC REQUIREMENTS.
3. PROVIDE EQUIPMENT GROUND CONDUCTORS SIZE PER NEC REQUIREMENTS.

N. FIRE SEALANT MATERIALS
1. ANY PENETRATION TO THE FIRE WALLS. CONTRACTOR SHALL PROVIDE FIRE SEALANT MATERIALS AT EVERY POINT WHERE OCCURRED. FIRE SEALANT MATERIALS MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO APPLICATION.

O. WORK SCHEDULE
1. COORDINATE WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE FOR WORK SCHEDULE REQUIREMENTS

P. FINAL TESTING
1. AT THE TIME OF FINAL INSPECTION AND TEST, ALL CONNECTIONS AND TERMINATIONS AT PANELBOARDS, DEVICES, EQUIPMENT, AS WELL ALL SPLICES MUST BE ALL COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUIT COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ELECTRICAL SYMBOLS

PANELBOARD - SEE SCHEDULE. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 6' - 0 " TO TOP.

MOTOR CONNECTION - HORSEPOWER AS INDICATED, FRACTIONAL IF NO NOTED.

DISCONNECT SWITCH - SEE DRAWING FOR VOLTAGE, POLES AND AMPERAGE RATING.

A-1 HOMERUN TO PANELBOARD. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS. NUMERALS AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUIT NUMBERS. SEE PANEL SCHEDULE FOR AMPERAGE RATING OF EACH CIRCUIT BREAKER AND CONDUCTOR SIZES

CIRCUITRY INSTALLED CONCEALED IN WALL OR ABOVE CEILING. NUMBER OF TICKS INDICATE NUMBER OF CONDUCTORS. IF NO TICKS MARK INDICATE 2 (TWO) CONDUCTORS IN RACEWAY. SEE PANEL SCHEDULE FOR CONDUCTOR SIZES.

S_M OCCUPANCY SENSOR FOR THE SMALL INDIVIDUAL OFFICE, +48" A.F.F. MOTION SENSOR SHALL BE AS MANUF. BY WATTSTOPPER WITH TIME DELAY SHALL BE SET @ LESS THAN 15 MINUTES WATTSTOPPER CAT# DW-100 COLOR TO BE SELECTED BY THE ARCHITECT.

(OC) OCCUPANCY SENSOR, CEILING MOUNTED AS MANUF. BY WATTSTOPPER.

SWITCH BANK

DL DAYLIGHT SENSOR

ELECTRICAL SYMBOLS

EXIT LIGHTING FIXTURE ON EMERGENCY CIRCUITRY ARROWS AS INDICATED. FIXTURES TO COMPLY WITH LOCAL JURISDICTION REQUIREMENTS - SEE SCHEDULE

S_T MOTOR RATED SWITCH WITH THERMAL OVERLOAD

WALL MOUNTED DUPLEX RECEPTACLE - 2P, 3W, 20A, 125V, GROUNDED (HUBBELL # 5362). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18" UON.

WALL MOUNTED DOUBLE DUPLEX RECEPTACLE - 2P, 3W, 20A, 125V, GROUNDED (HUBBELL #5362). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18" UON.

(J) (J) JUNCTION BOX - CEILING OR WALL MOUNTED

S SINGLE POLE SWITCH - ARROW HART #1991. COLOR OF DEVICE AND FACE PLATE SHALL BE WHITE. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 4' - 0".

S_3 THREE WAY SWITCH . COLOR OF DEVICE AND FACE SHALL BE WHITE. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 4' - 0"

(SD) SMOKE DETECTOR

SPECIAL OUTLET. COORDINATE EXACT NEMA CONFIGURATIONS OF OUTLET WITH OWNER'S REPRESENTATIVE AND EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY C CONDUIT/EMT
C/B	CIRCUIT BREAKER
EC	EMPTY CONDUIT/EMT. PROVIDE PULL WIRE
EMT	ELECTRICAL METALLIC TUBING
G	GROUND
HP	HORSEPOWER
MCB	MAIN CIRCUIT BREAKER
MTD	MOUNTED
NIC	NOT IN CONTRACT
KW	KILOWATTS
P	POLE
PNL	PANEL
R	RECESSED
LF	LINEAR FEET
S	SURFACE
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
MTD	MOUNTED
OC	ON CEILING
EG	EQUIPMENT GROUND
IG	ISOLATED GROUND
FACP	FIRE ALARM CONTROL PANEL

CETRIX DESIGN
A Cetrix Technologies LLC company
REFERENCE SAMPLE
NOT FOR CONSTRUCTION

SINGLE FAMILY HOUSE
Napa, CA 94559

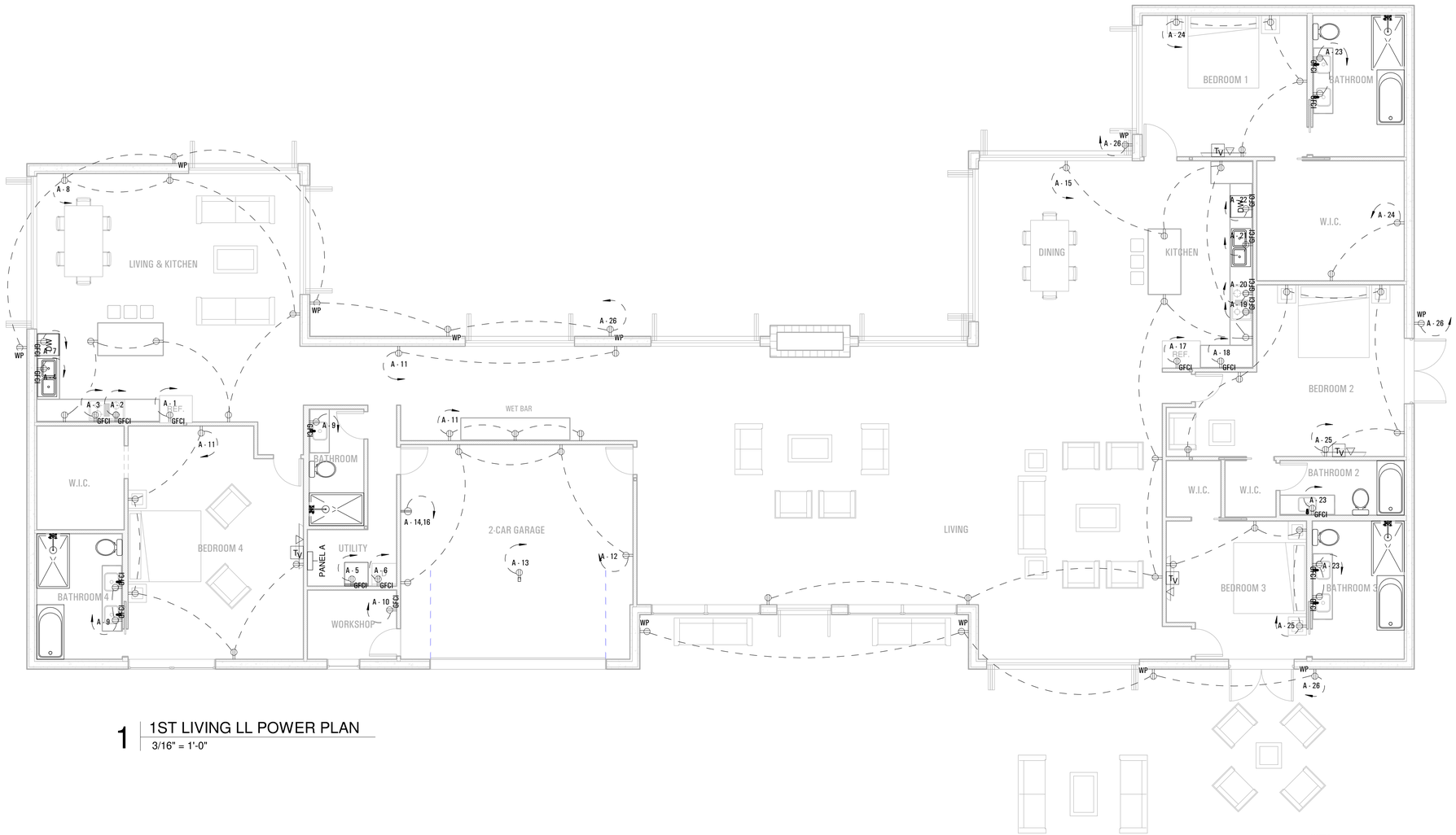
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:
CAD FILE:
DATE:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
SHEET TITLE:

ELECTRICAL NOTES

DRAWING SHEET NO:

E0-00



1 1ST LIVING LL POWER PLAN

3/16" = 1'-0"

NOTES:

1. NEWLY INSTALLED, REPLACED, OR RELOCATED RECEPTACLES SHALL BE TAMPER-RESISTANT (TR).
   ALL RECEPTACLES SHALL BE GFCI PROTECTED AND TAMPER-RESISTANT (TR). IF ANY NEW/ADDITIONAL OUTLETS ARE INSTALLED, THE BATHROOM SHALL HAVE A DEDICATED 20-AMP CIRCUIT.
2. EXHAUST FANS WITH A MINIMUM VENTILATION RATE OF 50 CFM ARE REQUIRED IN ALL BATHROOMS, EVEN IF AN OPERABLE WINDOW IS INSTALLED. EXHAUST FANS AND LIGHTING SHALL
   HAVE SEPARATE CONTROL SWITCHES (EVEN IF A COMBINATION UNIT IS INSTALLED). THE EXHAUST FAN MAY NEED TO BE SUPPLIED BY A GFCI PROTECTED CIRCUIT BASED ON THE
   MANUFACTURER'S REQUIREMENTS.
3. LIGHTING FIXTURES LOCATED WITHIN 3 FEET HORIZONTALLY AND 8 FEET VERTICALLY OF THE BATHTUB RIM OR SHOWER STALL THRESHOLD SHALL BE LISTED FOR A DAMP LOCATION, OR
   LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY.
4. EACH BATHROOM SHALL HAVE ONE LIGHT FIXTURE CONTROLLED BY A VACANCY SENSOR SWITCH THAT REQUIRES A MANUAL ON ACTIVATION (DOES NOT AUTOMATICALLY TURN ON) AND
   AUTOMATICALLY TURNS OFF WITHIN 30 MINUTES AFTER THE ROOM IS VACATED. ALL OTHER LIGHT FIXTURES SHALL BE CONTROLLED BY A VACANCY SENSOR OR DIMMER
5. GFCI PROTECTION SHALL BE PROVIDED FOR ALL COUNTERTOP RECEPTACLES, RECEPTACLES WITHIN 6 FEET OF A SINK (INCLUDING BELOW COUNTER AND BEHIND AN APPLIANCE), AND FOR
   RECEPTACLES SUPPLYING DISHWASHERS. THE RESET BUTTON FOR GFCI RECEPTACLES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION (I.E. NOT BEHIND AN APPLIANCE).
6. COUNTERTOP RECEPTACLES SHALL BE LOCATED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24 INCHES FROM A RECEPTACLE.
7. COUNTERTOP RECEPTACLES SHALL BE LOCATED NO MORE THAN 20 INCHES ABOVE THE COUNTERTOP.
8. ISLANDS/PENINSULAS SHALL HAVE AT LEAST ONE RECEPTACLE MOUNTED NOT MORE THAN 12 INCHES BELOW THE COUNTERTOP AND WHERE THE COUNTERTOP DOES NOT EXTEND MORE
   THAN 6 INCHES BEYOND ITS BASE.
9. ELECTRIC STOVES AND OVENS SHALL BE SUPPLIED WITH A 40- OR 50- AMP BRANCH CIRCUIT.
10. COUNTERTOP RECEPTACLES SHALL BE SUPPLIED BY A MINIMUM OF TWO 20-AMP BRANCH CIRCUITS.
11. A DEDICATED CIRCUIT IS REQUIRED FOR CORD AND PLUG CONNECTED RANGE EXHAUST HOODS. SEPARATE CIRCUITS MAY BE REQUIRED FOR THE GARBAGE DISPOSAL, DISHWASHER, AND
   BUILT-IN MICROWAVE BASED ON THE MANUFACTURER'S REQUIREMENTS AND THE MOTOR RATING.
12. DINING AREA, BREAKFAST ROOM, PANTRY, OR SIMILAR AREA SHALL BE SUPPLIED BY A 20-AMP CIRCUIT, THE COUNTERTOP CIRCUITS MAY BE USED TO SUPPLY THESE AREAS.
13.ALL LIGHTING FIXTURES SHALL BE CONTROLLED BY EITHER A DIMMER SWITCH OR BY A VACANCY SENSOR SWITCH THAT REQUIRES A MANUAL ON ACTIVATION (DOES NOT AUTOMATICALLY
   TURN ON) AND AUTOMATICALLY TURNS OFF WITHIN 30 MINUTES AFTER THE ROOM IS VACATED.
14. ALL LIGHT FIXTURES SHALL CONTAIN BULBS THAT ARE LABELED AS JA8-2016 (JA8-2016-E FOR SEALED LENS OR RECESSED FIXTURE). SCREW BASE BULBS ARE PERMITTED, EXCEPT IN
   RECESSED LIGHTING FIXTURES.
15. RECESSED LIGHTING SHALL BE LISTED AS IC (ZERO CLEARANCE TO INSULATION) AND AT (AIR TIGHT), BE SEALED/CAULKED BETWEEN THE FIXTURE HOUSING AND CEILING, SHALL NOT
   CONTAIN A SCREW BASE SOCKET, AND CONTAIN BULBS MARKED WITH JA8-2016-E EFFICIENCY LABEL.
16. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND BE CONTROLLED BY PHOTOCELL AND MOTION SENSOR

CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
ISSUE:		

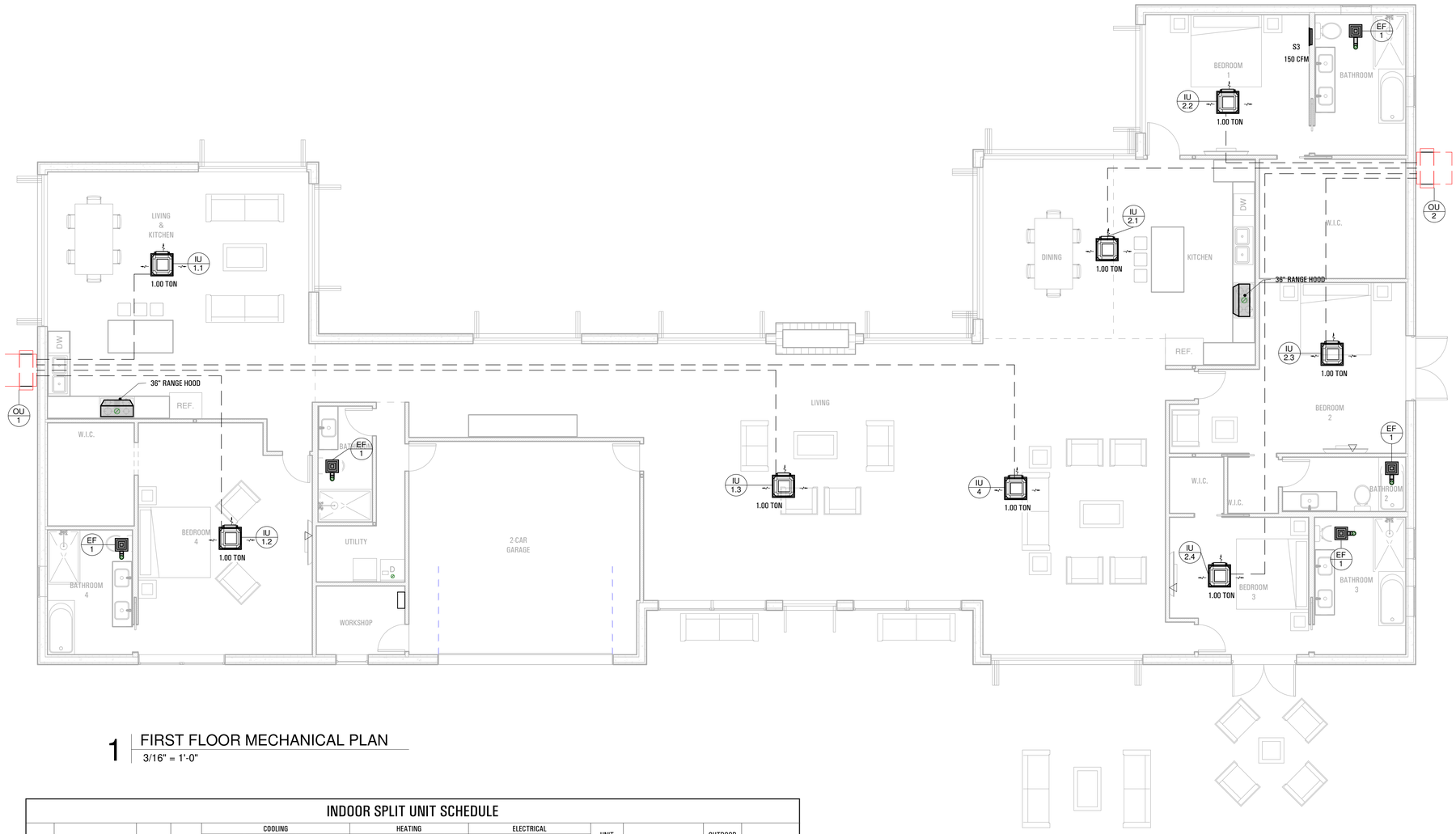
PROJECT NO:	
CAD FILE:	
DATE:	
DRAWN BY:	
CHECKED BY:	
COPYRIGHT:	

SHEET TITLE:

1ST FLOOR POWER PLAN

DRAWING SHEET NO:

E0-01



1 FIRST FLOOR MECHANICAL PLAN

3/16" = 1'-0"

INDOOR SPLIT UNIT SCHEDULE

UNIT	TYPE	CFM	OA	COOLING					HEATING				ELECTRICAL					UNIT WEIGHT	MFCR AND MODEL	OUTDOOR UNIT	REMARKS
				TOTAL CAPACITY	EA		LAT		TOTAL CAPACITY	EAT	LAT	AFUE	MCA	MOCP	VOLTS	PHASE	CYCLE				
					DB	WB	DB	WB													
IU-1.1	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-1.2	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-1.3	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-2.1	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-2.2	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-2.3	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-2.4	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		
IU-4	CASSETTE RECESSED	400 CFM	0 CFM	12,000 Btu/h	27 °C	19 °C	13 °C	12 °C	13,500 Btu/h	38 °C	10 °C		0 A	15 A	208 V	1	60 Hz	37 lbf	MITSUBISHI PLFY-P12NFMU OR EQUAL		

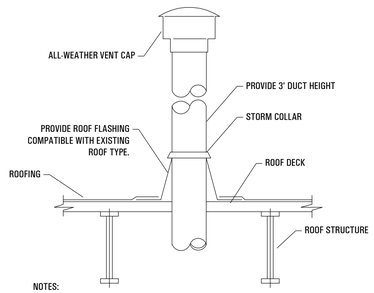
OUTDOOR SPLIT UNITS SCHEDULE

UNIT NO.	COOLING DATA		HEAT DATA	COMPRESSOR DATA			CONDENSER FAN DATA			POWER SUPPLY					UNIT WEIGHT, POUNDS	MFCR AND MODEL	NOTES
	TOTAL BTUH	SEER	BTUH	QTY	CIRCUIT		QTY	HP	RPM	MCA	MOCP	VOLTS	PHASE	CYCLE			
					RLA	LRA											
OU -2	54000	14.1	48000		22.7					27	30	208	1	60	283	48PLA-M	
OU -1	54000	14.1	48000		22.7					27	30	208	1	60	283	48PLA-M	

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	COUNTS	CFM	ESP	WATTS	ELECTRICAL DATA			METHOD OF CONTROL	NOTES
							VOLTS	PHASE	CYCLE		
EF -1	CEILING	BATHROOM	5	75 CFM	0.10 in-wg	43 W	110	1	60	SWITCH	

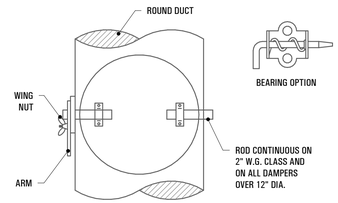
NOTES:
1) FAN SHALL INCLUDE DISCONNECT SWITCH AND BACKDRAFT DAMPER.
2) PROVIDE FACTORY SOLID STATE SPEED FAN CONTROLLER
3) PROVIDE FAN SUPPORT WITH VIBRATION ISOLATORS.



NOTES:
1) LOCATE ROOF PENETRATION A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
2) PROVIDE ROOF ACCESSORIES THAT ARE COMPATIBLE WITH EXISTING ROOFING MATERIALS.

2 EXHAUST ROOF PENETRATION DETAIL

NOT TO SCALE



3 SINGLE BLADE VOLUME DAMPER DETAIL

NTS

CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

SINGLE FAMILY HOUSE

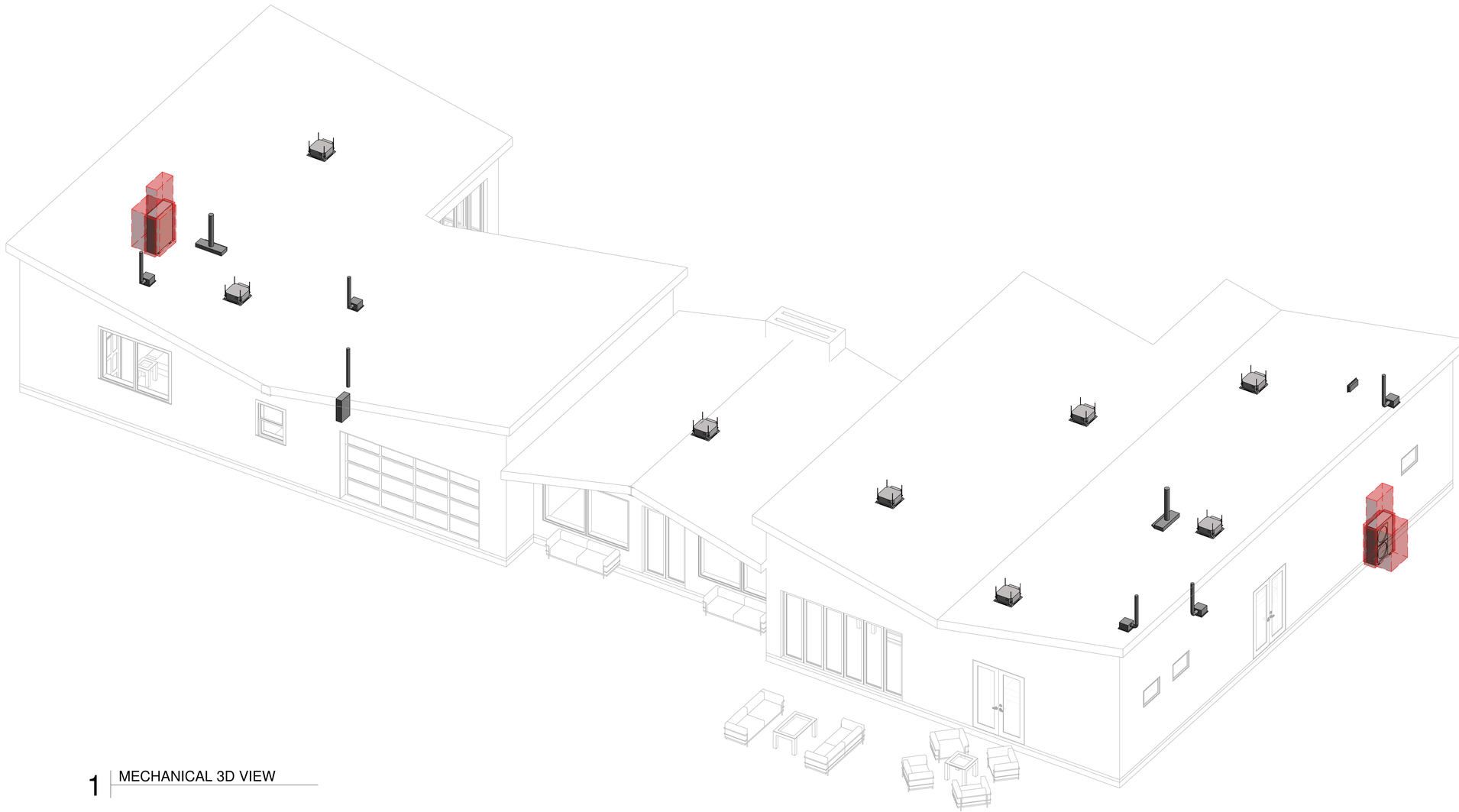
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:
CAD FILE:
DATE:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
SHEET TITLE:

FLOOR MECHANICAL PLANS

DRAWING SHEET NO:

M0-01



1 MECHANICAL 3D VIEW

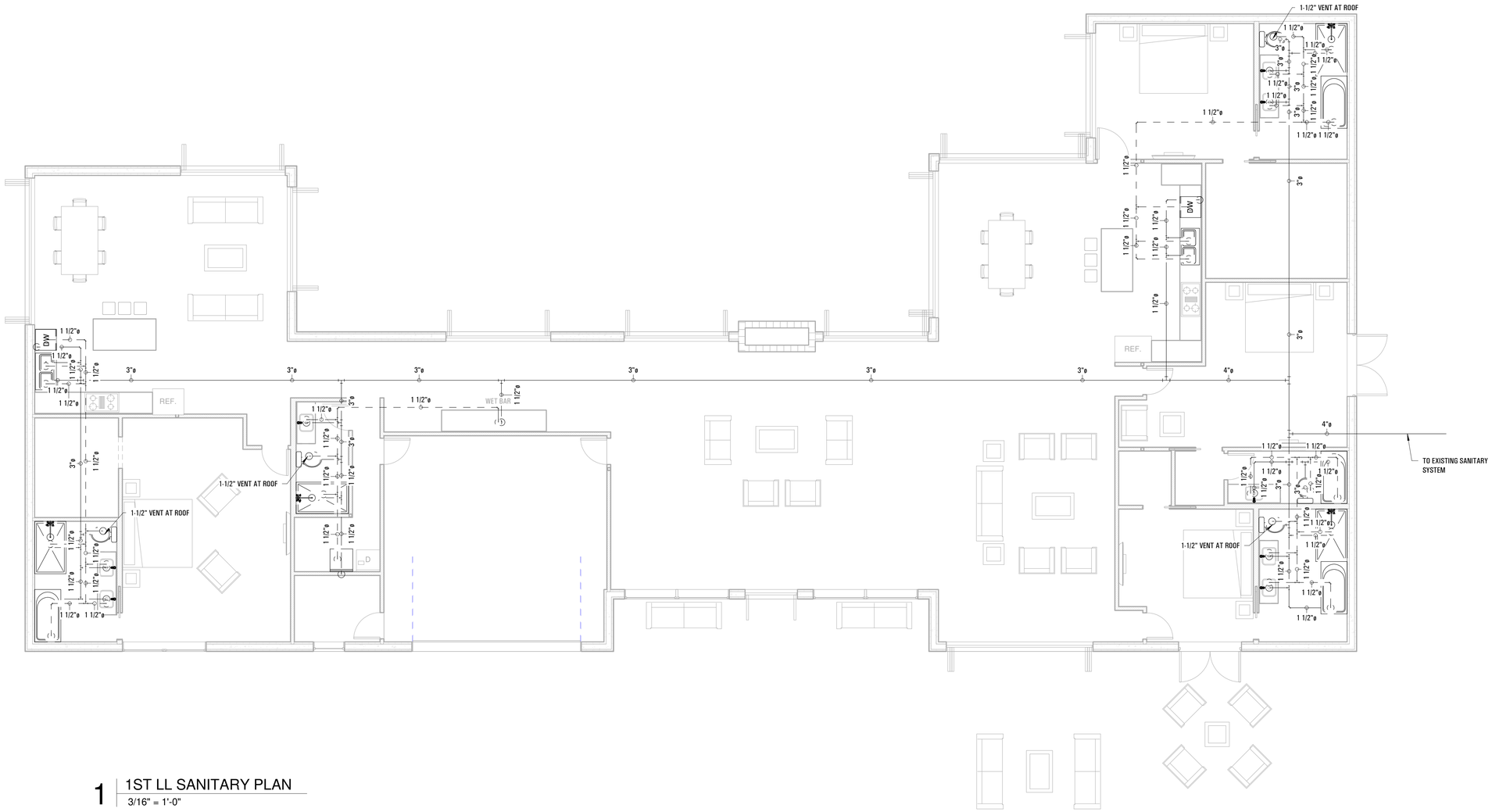
CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

SINGLE FAMILY HOUSE

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	
CAD FILE:	
DATE:	
DRAWN BY:	
CHECKED BY:	
COPYRIGHT:	
SHEET TITLE:	3D VIEW
DRAWING SHEET NO:	M0-03



1 1ST LL SANITARY PLAN
3/16" = 1'-0"

GENERAL NOTES

1. FOR DOMESTIC WATER PIPE SIZES, REFER TO DOMESTIC WATER RISER DIAGRAM.
2. ALL WATER LINES ARE LOCATED ABOVE THE CEILING UNLESS OTHERWISE NOTED
3. IF THE WATER PRESSURE EXCEEDS 80 PSI, AND EXPANSION TANK AND AN APPROVED PRESSURE REGULATOR SHALL BE INSTALLED.
4. THAT NON-REMOVABLE BACKFLOW PREVENTER OR BIBB-TYPE VACUUM BREAKER WILL BE INSTALLED ON ALL EXTERIOR HOSE BIBS.
5. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF NOR LESS THAN 1' FROM ANY VERTICAL SURFACE. VENTS SHALL TERMINATE NOT LESS THAN 10" FROM OR 3' ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT NOR 3' FROM LOT LINE.
6. NEW OR RECONFIGURED SHOWER STALLS SHALL BE A MINIMUM FINISHED INTERIOR OF 1,024 SQUARE INCHES, BE CAPABLE OF ENCOMPASSING A 30 INCH DIAMETER CIRCLE. ANY DOORS SHALL SWING OUT OF THE ENCLOSURE HAVE A CLEAR OPENING OF 22 INCHES MINIMUM.
7. SHOWER STALLS AND BATHTUBS WITH SHOWER HEADS INSTALLED, SHALL HAVE WALLS FINISHED WITH A NONABSORBENT SURFACE FOR A MINIMUM OF 6 FEET ABOVE THE FLOOR.
8. HYDRO-MASSAGE TUBS (I.E. JACUZZI TUBS) SHALL HAVE ACCESS TO THE MOTOR, BE SUPPLIED BY A GFCI PROTECTED DEDICATED CIRCUIT, AND BE LISTED BY A RECOGNIZED TESTING AGENCY (I.E. UL). ALL METAL CABLES, FITTINGS, PIPING, OR OTHER METAL SURFACES, WITHIN 5 FEET OF THE INSIDE WALL OF THE HYDRO-MASSAGE TUB SHALL BE PROPERLY BONDED. HYDRO-MASSAGE TUBS SHALL BE BONDED WITH A MINIMUM #8 AWG BARE COPPER WIRE AND THE BONDING SHALL BE ACCESSIBLE.
9. WHERE THE WATER CLOSET (OR OTHER PLUMBING FIXTURE) COMES INTO CONTACT WITH THE WALL OR FLOOR, THE JOINT SHALL BE CAULKED AND SEALED TO BE WATERTIGHT.

CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

SINGLE FAMILY HOUSE
Napa, CA 94559

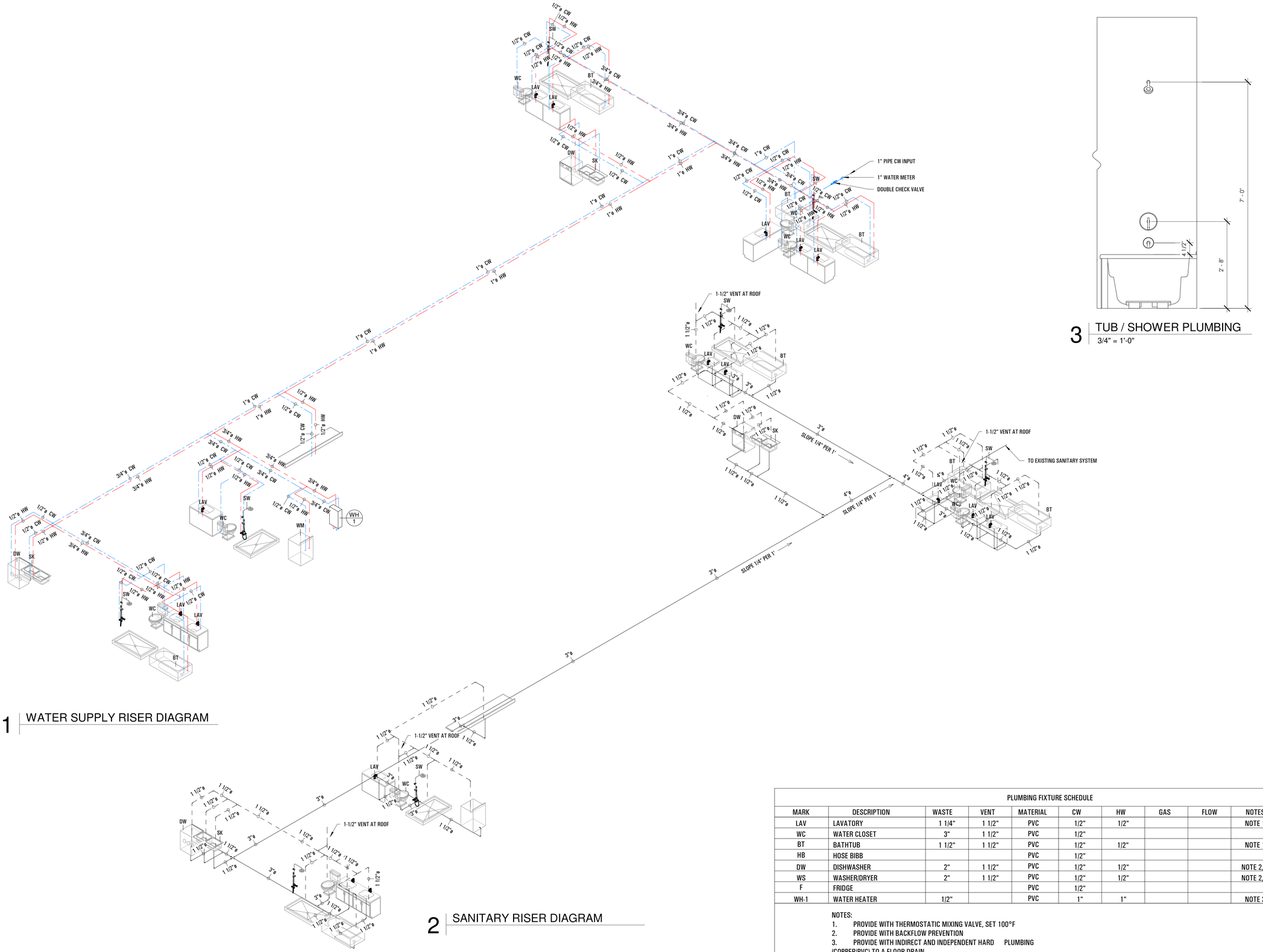
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:
CAD FILE:
DATE:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
SHEET TITLE:

SANITARY PLANS

DRAWING SHEET NO:

P0-02



1 WATER SUPPLY RISER DIAGRAM

2 SANITARY RISER DIAGRAM

3 TUB / SHOWER PLUMBING
3/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE	VENT	MATERIAL	CW	HW	GAS	FLOW	NOTES
LAV	LAVATORY	1 1/4"	1 1/2"	PVC	1/2"	1/2"			NOTE 1
WC	WATER CLOSET	3"	1 1/2"	PVC	1/2"				
BT	BATHTUB	1 1/2"	1 1/2"	PVC	1/2"	1/2"			NOTE 1
HB	HOSE BIBB			PVC	1/2"				
DW	DISHWASHER	2"	1 1/2"	PVC	1/2"	1/2"			NOTE 2, 4
WS	WASHER/DRYER	2"	1 1/2"	PVC	1/2"	1/2"			NOTE 2, 4
F	FRIDGE			PVC	1/2"				
WH-1	WATER HEATER	1/2"		PVC	1"	1"			NOTE 3

NOTES:
1. PROVIDE WITH THERMOSTATIC MIXING VALVE, SET 100°F
2. PROVIDE WITH BACKFLOW PREVENTION
3. PROVIDE WITH INDIRECT AND INDEPENDENT HARD PLUMBING (COPPER/PVC) TO A FLOOR DRAIN
4. PROVIDE WITH WATER HAMMER ARRESTOR

CETRIX DESIGN
A Cetrix Technologies LLC company

REFERENCE SAMPLE
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:
CAD FILE:
DATE:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
SHEET TITLE:

RISER DIAGRAMS

DRAWING SHEET NO:

P0-03