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HOMEOWNER & CONTRACTOR: TO VERIFY ALL DIMENSIONS, STRUCTURAL DETAILS, AND BUILDING CODES, AND GRADE REQUIREMENTS.

SUB-CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY RUSS NEVILLE OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

To the best of my knowledge these plans are drawn to comply with owner's and/or builder's specifications and any changes made on them after prints are made will be done at the owner's and/or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. DESERT DRAFTING LLC is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

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Date: 1/12/2007

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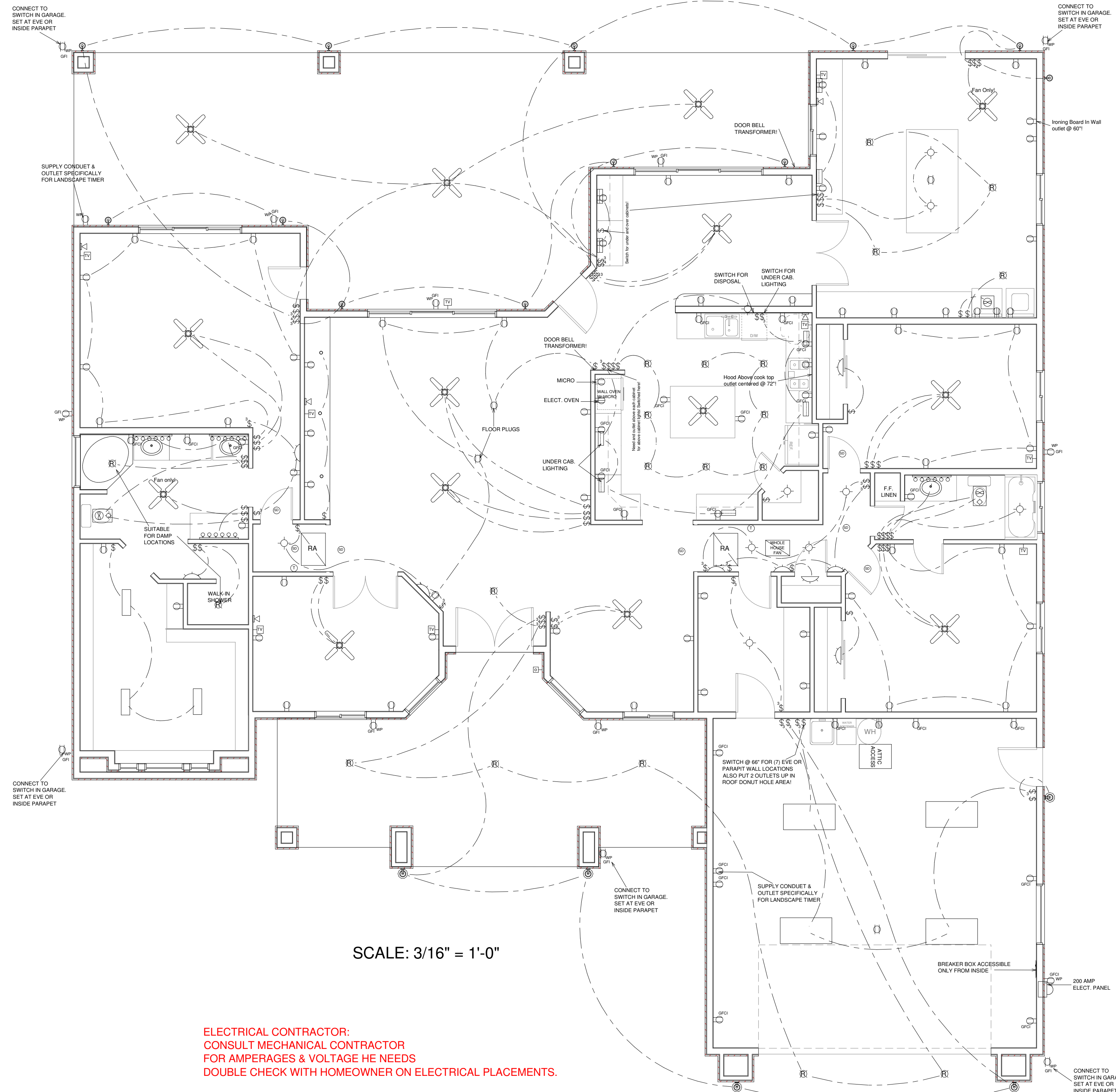
NEVILLE RESIDENCE
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3048

MECH.

PAGE

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SCALE: 3/16" = 1'-0"

ELECTRICAL CONTRACTOR:
CONSULT MECHANICAL CONTRACTOR
FOR AMPERAGES & VOLTAGE HE NEEDS
DOUBLE CHECK WITH HOMEOWNER ON ELECTRICAL PLACEMENTS.

ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED FOR PERMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY METER LOCATION, CABLE SIZES, AND THEIR RESPECTIVE LOCATIONS.
- ALL WIRING AND CONDUIT INSTALLATION SHALL COMPLY WITH THE 2003 IRC ADOPTED CODE. FIXTURES SHALL BE U.L. APPROVED TYPE, INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- VERIFY LOCATION OF 200 A.M.P. SERVICES WITH BUILDER AND A.P.S. PRIOR TO CONSTRUCTION. SERVICE PANELS SHALL HAVE INTEGRAL METER LOOPS AND FLUSH MOUNT INSTALLATION CERTIFIED FOR EXTERIOR USE.
- ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 IRC - MINIMUM CONDUCTOR SIZE SHALL BE # 12 COPPER.
- (WIRING) CABLES RUN ALONG (PARALLEL WITH) FRAMING MEMBERS (STUD, JOIST, RAFTERS) SHALL BE INSTALLED AND SUPPORTED SO THAT THE NEAREST OUTSIDE SURFACE OF THE CABLE IS NOT LESS THAN 1 1/4" FROM THE NEAREST EDGE OF THE MEMBER. NEC 300 - 4 (D).
- WHERE INSTALLED IN WET LOCATIONS, ELECTRICAL RECEPTACLES SHALL HAVE WEATHERPROOF IN-USE COVERS.
- ALL EXTERIOR W.P. OUTLETS, KITCHEN, BATH AND GARAGE RECEPTACLES TO BE ON G.F.I.
- PENETRATIONS OF FIRE- RESISTIVE OCCUPANCY SEPARATION BETWEEN GARAGE AND DWELLING SHALL BE BY NONCOMBUSTIBLE ITEMS. (DWV, WASHER BOXES, ELECTRIC BOXES, ETC. TO BE RATED FOR ONE HOUR WALL.
- CIRCUIT BREAKERS SHALL BE MARKED WITH A VOLTAGE RATING. NEC 240-83.
- 200A ELEC PANEL LOCATION TO BE DETERMINED BY AZ. LICENSED ELECTRICAL CONTRACTOR AND SHALL COMPLY WITH 2003 IRC AND LOCAL UTILITY COMPANY REQUIREMENTS.
- SMOKE DETECTORS SHALL BE PROVIDED IN ALL ROOMS USED FOR SLEEPING PURPOSES. THEY SHALL BE EQUIPPED WITH A BATTERY BACKUP. THE DETECTOR SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. ALSO IN THE AREA GIVING ACCESS TO EACH SLEEPING AREAS.
- SMOKE DETECTORS SHALL BE INTERCONNECTED TO ACTIVATE SIMULTANEOUSLY.
- PROVIDE EXTRA SUPPORT & BLOCKING FOR CEILING FAN AND OTHER FIXTURES.
- A BRANCH CIRCUIT PROVIDING POWER TO BEDROOMS SHALL BE PROTECTED BY AN ARC- FAULT CIRCUIT INTERRUPTER.
- A/C UNIT TO HAVE POSITIVE DISCONNECT AND 20 AMP SERVICE RECEPTACLE AT SAME LEVEL & WITH IN 25'-0" OF UNIT.

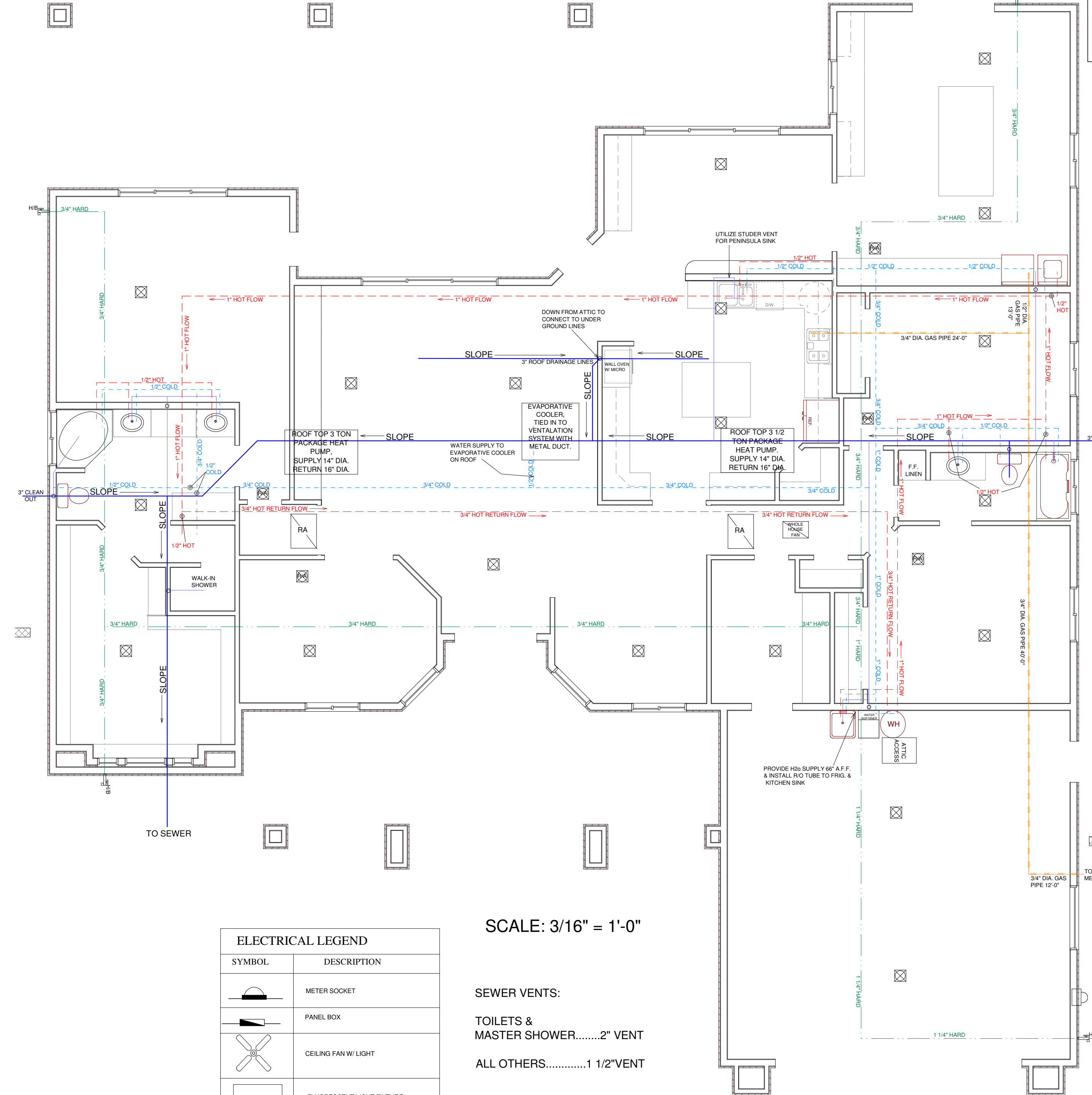
LINE LEGEND

HARD WATER	---
COLD WATER	---
HOT WATER	---
GAS LINE	---
2" SEWER	---
3" SEWER	---

ALL UNDERGROUND NONMETALLIC CONDUITS AND LINES SHALL HAVE A MINIMUM # 14 INSULATED COPPER TRACER WIRE SECURELY ATTACHED AT 8' O.C. OR WRAPPED AROUND THE PIPE AND HAVE 12" OF WIRE EXPOSED ON ONE END.

PLUMBING NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY METER LOCATIONS, SEWER LOCATIONS, PLUMBING SIZES, AND THEIR RESPECTIVE LOCATIONS.
- ALL PLUMBING SYSTEMS INCLUDING HOT & COLD WATER, WASTE & VENT, AND GAS DISTRIBUTION PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE. (1994)
- POTABLE WATER PIPING OF ANY TYPE SHALL NOT BE PLACED UNDER A CONCRETE SLAB ON GRADE.
- TRAP PRIMERS ARE REQUIRED ON FLOOR DRAINS PER UPC. 707.
- WATER CLOSETS SHALL BE OF THE TYPE NOT TO EXCEED 1.6 GALLONS OF WATER MAXIMUM FLUSH. -SHOWER HEADS AND FAUCETS SHALL NOT EXCEED WATER FLOW OF 3 GALLONS PER MINUTE AT 80 PSI OPERATING PRESSURE.
- GAS SUPPLY SHALL BE 3'-0" MIN. FROM WINDOW OPENING AND SOURCE OF ELECTRICAL IGNITION.
- WATER HEATERS GENERATING A GLOW , SPARK OR FLAME CAPABLE OF IGNITING FLAMMABLE VAPORS MAY BE INSTALLED IN A GARAGE, PROVIDED THE PILOTS, BURNERS OR HEATING ELEMENTS AND SWITCHES ARE AT LEAST 18" ABOVE THE FINISHED FLOOR.
- WATER HEATER PRESSURE AND TEMPERATURE RELIEF VALVES REQUIRED.
- SEISMIC STRAPPING PER AZUPC 510.5 FOR WATER HEATER.
- SHOWERS SHALL HAVE A NON-ABSORBENT FINISH SUCH AS TILE, ETC. TO HEIGHT OF 70" MIN. ABOVE THE DRAIN INLET.
- OUTSIDE HOSEBIBBS SHALL BE PROVIDED WITH AN APPROVED BACK FLOW PROTECTIVE DEVICE.



SCALE: 3/16" = 1'-0"

SEWER VENTS:
TOILETS & MASTER SHOWER.....2" VENT
ALL OTHERS.....1 1/2" VENT

SEWER LINES:
3" TRUNK FROM CLEANOUT TO FRONT OF HOUSE
4" LINE FROM FRONT OF HOUSE TO SEWER CONN.

MECHANICAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY A/C UNIT, REGISTER SIZES,, AND THEIR RESPECTIVE LOCATIONS.
- ALL MECHANICAL, REFRIGERATION, & HEATING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. (1996)
- ALL DUCT WORK AND AIR HANDLING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE S.M.A.C.N.A. MANUAL, CURRENT EDITION.
- HVAC CONTRACTOR TO HAVE SHOP DRAWINGS & CALC'S. ON SITE FOR INSPECTION.
- ALL EXHAUST DUCTS, INCLUDING BATHROOMS, KITCHEN, & LAUNDRY SHALL BE METAL.
- MECHANICAL UNIT WILL SUPPLY HEATING TO THE HOUSE.
- ROOF MOUNTED A/C UNITS SHALL BE PACKAGE HEAT PUMPS W/ QUICK DISCONNECT.
- ALL DUCT WORK SHALL BE INSULATED TO 1" MIN. DEPTH.
- MECHANICAL CONTRACTORS SHALL PROVIDE A/C UNIT STAND ADAPTED TO ROOF PITCH AS SHOWN & SECURE THEM TO ROOF.
- ALL REGISTERS SHALL HAVE ADJUSTABLE LOUVERS AND INTEGRAL DAMPERS.
- DUCT ON GARAGE SIDE SHALL BE 26 GA. GALV. SHEET METAL.
- DUCTS USED FOR KITCHEN RANGE VENTILATION AND CLOTHES DRYER SHALL BE OF METAL AND HAVE SMOOTH INTERIOR SURFACE. APPROVED FLEX CONNECTOR NOT MORE THEN 6'-0" LONG MAY BE USED ON DRYER EXHAUST. FLEX DUCT CANNOT BE CONCEALED WITHIN CONSTRUCTION UMC 1104.
- MOISTURE EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER.
- MECHANICAL CONTRACTOR TO PROVIDE REQUIRED OPENING FOR REGISTERS.
- PROVIDE CONDENSATE DRAIN LINES FOR ATTIC AIR HANDLER, THAT SHALL CONVEY TO AN APPROVED PLACE OF DISPOSAL.

MECHANICAL CONTRACTOR:
CONSULT ELECTRICAL CONTRACTOR
FOR AMPERAGES & VOLTAGE YOU NEED