

GENERAL PLUMBING SPECIFICATIONS

JOB NOTES - PLUMBING

ALL PLUMBING INSTALLATIONS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE GEORGIA PLUMBING CODE AND ALL OTHER STATE AND LOCAL CODES.

ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH UNROT COPPER FITTINGS. JOINTS SHALL BE MADE USING LEAD FREE SOLDER AND SHALL BE HAMMER TESTED UNDER PRESSURE. ALL PROVISIONS OF THE LEAD REDUCTION ACT SHALL BE ADHERED TO IN THIS PROJECT.

ALL DOMESTIC WATER PIPING SHALL BE TESTED AT 100 PSI FOR A PERIOD OF NOT LESS THAN 1 HOUR. SANITARY SYSTEMS SHALL BE TESTED AT 10' HYDROSTATIC HEAD ABOVE THE HIGHEST VENT FOR A PERIOD OF NOT LESS THAN THREE HOURS. NO DROP IN PRESSURE OR LEVEL SHALL BE ACCEPTABLE AND ANY TESTS REQUIRED BY THE LOCAL AUTHORITY WHICH ARE MORE STRINGENT SHALL BE ACCOMPLISHED IN ADDITION TO THESE TESTS.

CONNECTIONS BETWEEN DISSIMILAR METALS AND CONNECTIONS TO THE WATER HEATER SHALL BE MADE USING DIELECTRIC UNIONS.

ALL VALVES IN THE SYSTEM SHALL BE ACCESSIBLE AT THE CLOSE OF THE PROJECT. A VALVE SHALL BE INSTALLED IN THE SUPPLY LINE TO THE BUILDING AT THE PRESSURE REDUCING VALVE AND AT THE SUPPLY LINE TO THE WATER HEATERS AND ANY OTHER PLACE SHOWN ON THE DRAWINGS. A BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE SHALL BE INSTALLED AT THE POINT SPECIFIED BY THE LOCAL AUTHORITY OR AT THE POINT AT WHICH THE WATER ENTERS THE BUILDING IF NO REQUIREMENT IS SPECIFIED.

ALL SEWER LINES SHALL BE SLOPED AT BETWEEN 1% AND 2%. OUTSIDE SEWERS MAY BE SLOPED PER LOCAL AUTHORITY RECOMMENDATIONS (NOT LESS THAN 4/10 OF 1%).

ALL SEWER WASTE AND VENT LINES SHALL BE SCHEDULE 40 PVC OR SERVICE WEIGHT CAST IRON. PVC SHALL BE DUAL MARKED ASTM D-1185/2665 PIPE WITH DUV PATTERN FITTINGS AND SOLVENT WELD JOINTS.

ALL ROOF PENETRATIONS SHALL BE FLASHED WATERTIGHT BY THE ROOFING CONTRACTOR USING APPROVED FLASHINGS FURNISHED BY THE PLUMBING CONTRACTOR.

GENERAL MECHANICAL NOTES

THE MECHANICAL CONTRACTOR SHALL SURVEY THE PLANS AND SPECIFICATIONS AND PLACE THE EQUIPMENT IN SUCH A MANNER TO AVOID CONFLICT WITH OTHER TRADES AND SO THAT THE EQUIPMENT WILL BE SERVICEABLE AT THE CLOSE OF THE PROJECT.

THE MECHANICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING AIR CONDITIONING TO THE RESPECTIVE UNITS AND OTHER EQUIPMENT.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL EQUIPMENT IN SUCH A MANNER THAT THE INTAKES OF ALL EQUIPMENT DO NOT PICK UP WATER IN THE AIRSTREAM.

THE MECHANICAL CONTRACTOR SHALL EMPLOY SKILLED CRAFTSMEN IN THE AIR CONDITIONING TRADE AND SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THIS FIELD.

ALL REFRIGERANT LINES SHALL BE CONSTRUCTED OF REFRIGERANT TUBING AND SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR EFFECTIVE LENGTH. THE TUBING SHALL ENTER THE WALL AT A POINT NO MORE THAN 12" ABOVE FINISHED GRADE AND NEVER BE EXPOSED ON OUTSIDE WALLS.

COMPRESSORS SHALL BE EQUIPPED WITH 1 MINUTE TIME DELAYS TO PREVENT SHORT CYCLING.

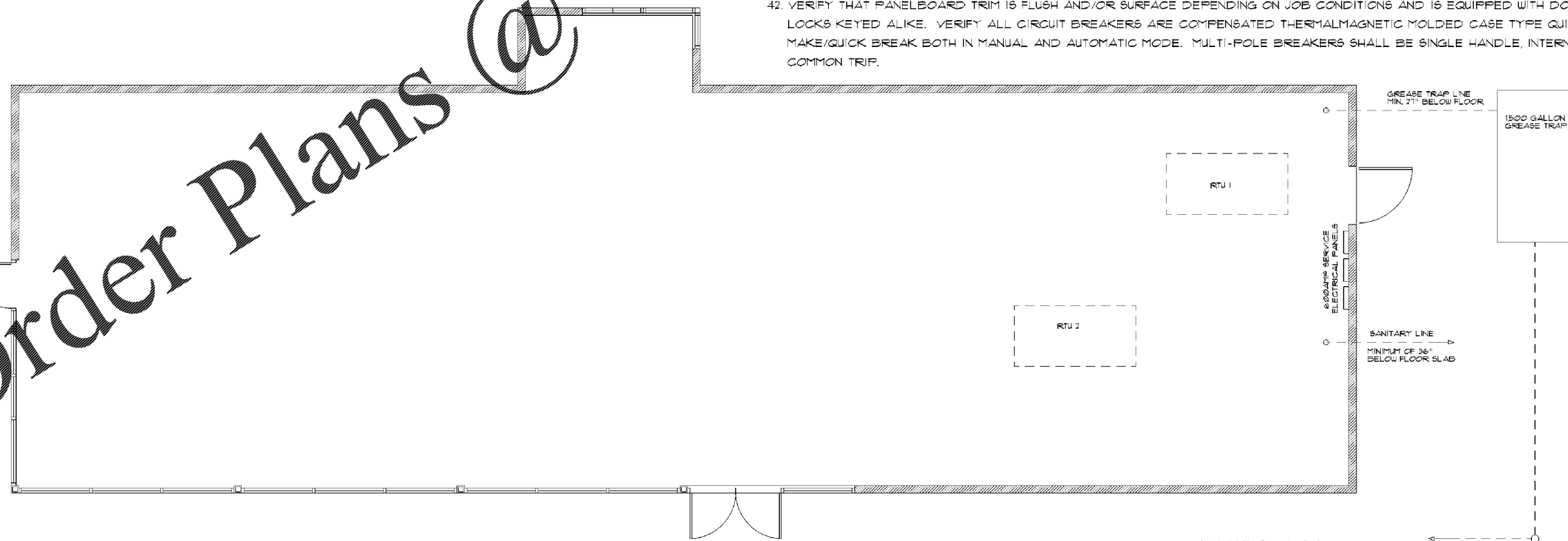
FANS SHALL BE MANUFACTURED AS SPECIFIED OR EQUAL MANUFACTURER PRIOR APPROVED.

THE CONDENSATE DRAINS SHALL BE PITCHED 1/4" IN ONE FOOT TO A POINT OUTSIDE THE STRUCTURE.

ELECTRICAL NOTES AND SPECIFICATIONS

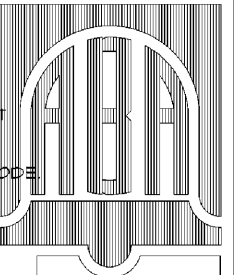
- ALL ELECTRICAL INSTALLATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER STATE AND LOCAL CODES INVOLVED. THE CODE ENFORCEMENT AUTHORITY OF THE INVOLVED LOCALITY SHALL RESERVE THE FINAL JUDGEMENT IN ANY INTERPRETATION.
- ALL UNDERGROUND WIRING SHALL BE RUN IN CONDUIT. CONTRACTOR MAY UTILIZE MC CABLE OR ROMEX AS PERMITTED BY CODE.
- ALL MATERIALS USED IN THIS PROJECT SHALL BE NEW AND OF THE QUALITY AND DESIGN SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, INSPECTIONS AND COORDINATION OF WORK WITH OTHER TRADES. THE CONTRACTOR SHALL, AT THE CLOSE OF THE PROJECT, FURNISH TO THE OWNER EVIDENCE OF ALL INSPECTIONS REQUIRED BY THE AUTHORITY.
- ALL DEVICES INSTALLED IN THIS PROJECT SHALL BE SPECIFICATION GRADE AND SHALL BE INSTALLED PLUMB AND TRUE TO ALL ADJACENT SURFACES.
- ALL DEVICES AND SPLICES IN THE WIRING SYSTEM SHALL BE MADE IN APPROVED JUNCTION BOXES WHICH SHALL BE READILY ACCESSIBLE AT THE CLOSE OF THE PROJECT.
- PERSONS EMPLOYED BY THE ELECTRICAL CONTRACTOR SHALL BE SKILLED IN THE ELECTRICAL TRADE AND BE FAMILIAR WITH THIS TYPE OF WORK.
- ALL INSTALLATIONS SHALL BE DONE IN A WORKMANLIKE MANNER AND UNACCEPTABLE WORK SHALL BE REMOVED AND RE-INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- MAKE ALL NECESSARY JOINTS IN THE WIRING USING IDEAL #452 OR #453 WIRE NUTS OR EQUAL.
- LEAVE AT EACH FIXTURE OUTLET 8" WIRE LOOP FOR FIXTURE CONNECTION.
- ALL CONDUCTORS SHALL BE STRANDED COPPER - THIN OR XHHW UNLESS OTHERWISE NOTED.
- ALL CONCEALED OUTLETS FOR ELECTRIC LIGHTS, SWITCHES, WALL RECEPTACLES, ETC SHALL HAVE STANDARD GALVANIZED STEEL OUTLET BOXES AND PLASTER RINGS, WHERE REQUIRED. BOXES AND COVERS SHALL NOT BE LESS THAN 1/2" THICK AND EVERY INSTANCE OF SUCH FORM AND DIMENSION AS TO BE ADAPTED TO ITS SPECIFIC USE AND LOCATION, TYPE OF FIXTURE TO BE USED, NUMBER, SIZE, AND ARRANGEMENT OF CONDUIT CONNECTING THERETO.
- ALL OUTLET BOXES SHALL BE INSTALLED IN WALLS AND CEILINGS TO BE FLUSH WITH THE FINISHED SURFACE WHERE APPLICABLE.
- FURNISH AND INSTALL CONTACTORS AND DISCONNECTS WHERE REQUIRED FOR PROPER OPERATION OF EQUIPMENT. INSTALL PROPER NEMA ENCLOSURE FOR LOCATIONS.
- VERIFY THAT ALL CONNECTIONS TO A/C EQUIPMENT ARE EQUIPPED WITH CONTROLS FOR PROPER OPERATION.
- FURNISH AND INSTALL CONDUIT FOR THERMOSTATS, IF REQUIRED. (WIRING BY MECH)
- VERIFY THAT EXISTING PANELBOARDS ARE OF THE AUTOMATIC CIRCUIT BREAKER TYPE. ELECTRICAL CONTRACTOR SHALL VERIFY GROUNDING IS COMPLETE AND IN COMPLIANCE WITH CODES.
- VERIFY THAT PANELBOARDS ARE EQUIPPED WITH MAIN LUGS UNLESS OTHERWISE SPECIFIED AND THAT THE MAIN SWITCHES ARE LOCATED ON THE EXTERIOR ADJACENT TO THE METER SOCKET AND ENCLOSED IN NEMA 3R ENCLOSURES. VERIFY THE PANELBOARDS ARE EQUIPPED WITH ISOLATED NEUTRAL BAR AND THE SERVICE POINT IS THE EXTERIOR SWITCH. VERIFY THAT ALL GROUNDING IS ACCOMPLISHED AT THE SERVICE POINT.
- VERIFY PANELS ARE SUITABLE FOR SERVICE VOLTAGE AND APPLICABLE SHORT CIRCUIT FAULT RATING.
- VERIFY PANEL ENCLOSURES ARE CODE SIZED, GALVANIZED STEEL.
- VERIFY THAT PANELBOARD TRIM IS FLUSH AND/OR SURFACE DEPENDING ON JOB CONDITIONS AND IS EQUIPPED WITH DOOR LOCKS KEYPED ALIKE. VERIFY ALL CIRCUIT BREAKERS ARE COMPENSATED THERMALMAGNETIC MOLDED CASE TYPE QUICK MAKE/QUICK BREAK BOTH IN MANUAL AND AUTOMATIC MODE. MULTI-POLE BREAKERS SHALL BE SINGLE HANDLE, INTERNAL COMMON TRIP.

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UTILITIES PLAN

1/4"=1'-0"



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DATE : 6/25/2020

SCALE : AS NOTED

JOB NO. : XXXXXX

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