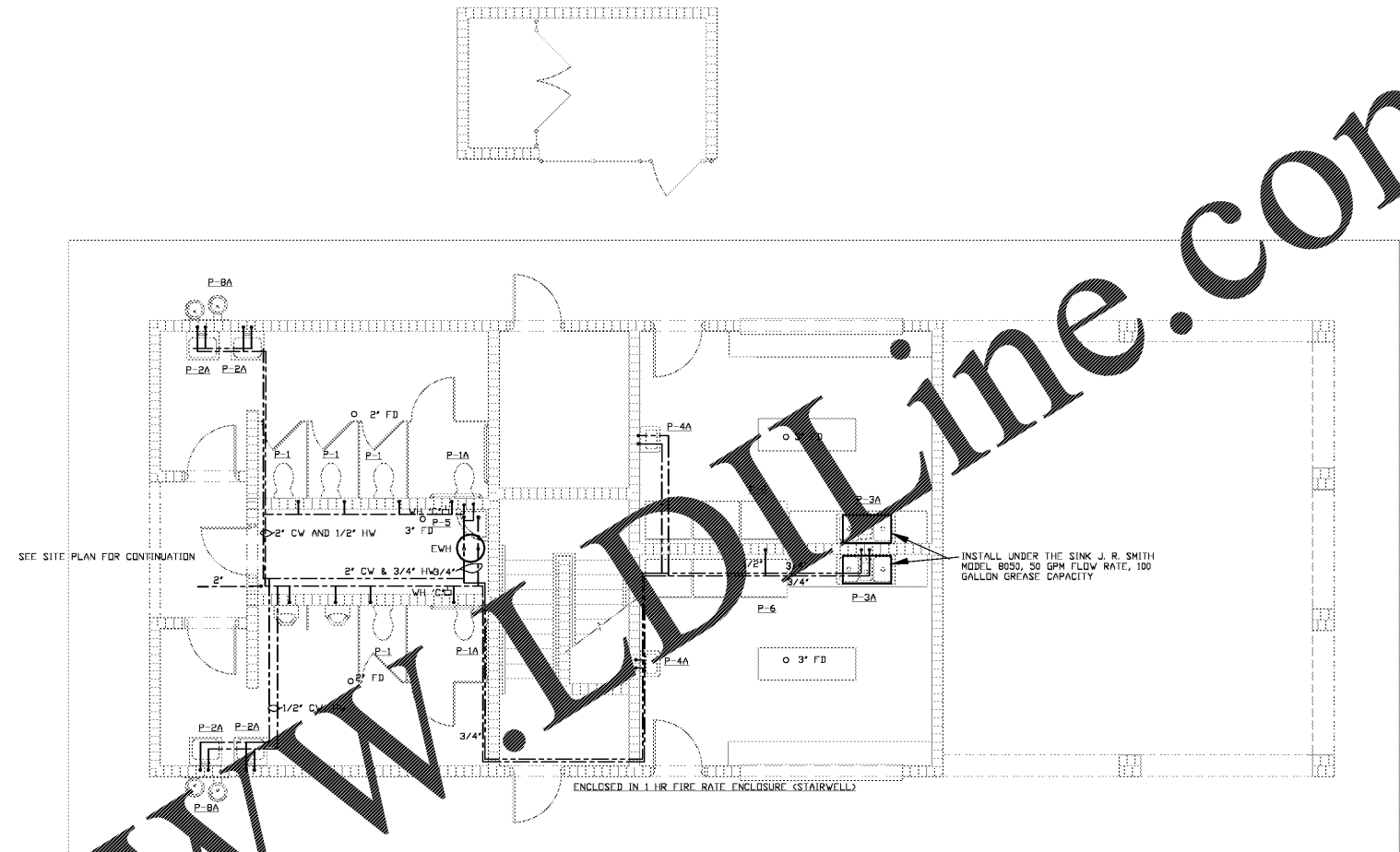


PLUMBING GENERAL NOTES

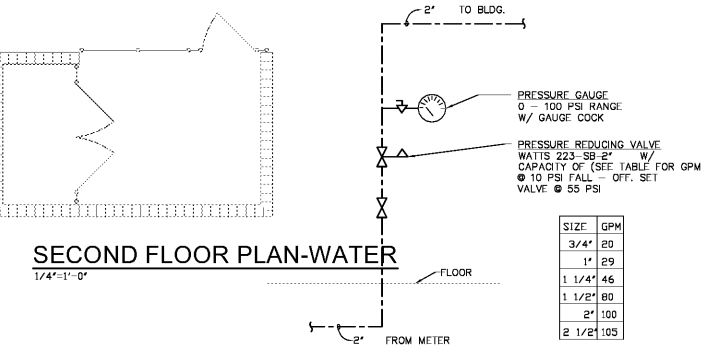
1. CONTRACTOR SHALL BRING TO THE ATTENTION OF ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.
3. REQUEST FOR PAYMENT FOR ADDITIONAL COSTS DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
4. FURNISH ALL PLAN, LABOR, EQUIPMENT, (EXCEPT AS OTHERWISE INDICATED AND AGREED UPON), AND MATERIALS AS INDICATED, AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM.
5. THE WORK UNDER THIS SECTION SHALL COMPLY AS MINIMUM REQUIREMENTS WITH APPLICABLE LAWS, ORDINANCES, CODES, AND REGULATIONS OF THE COUNTY, STATE, AND CITY WHERE INSTALLED, WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MORE THAN RESTRICTIVE THAN APPLICABLE CODES AND REGULATIONS DESCRIBED ABOVE, THE REQUIREMENTS OF PLANS AND SPECIFICATIONS SHALL BE MET.
6. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF THIS WORK AND PAY ALL CHARGES INCIDENT THERE TO. HE SHALL DELIVER TO THE ARCHITECT CERTIFICATES OF SAID INSPECTIONS ISSUED BY PROPER AUTHORITIES. HE SHALL PAY ALL COSTS FOR PERMITS AND INSPECTIONS AS REQUIRED BY GOVERNING AUTHORITY.
7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
8. VERIFY LOCATION, SIZE, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
9. FURNISH TWO BROCHURES CONTAINING CATALOG CUTS AND DATA ON PLUMBING FIXTURES, WATER HEATER AND SPECIFY ITEMS, AS WELL AS WARRANTIES AND GUARANTEES PERTAINING THERETO.
10. PROTECT ALL PLUMBING EQUIPMENT AND MATERIALS AGAINST DAMAGE. COMPLETED SYSTEM SHALL BE FREE FROM BLOCKAGE, DEBRIS, AND OBSTRUCTIONS.
11. PROVIDE THE OWNER WITH A WRITTEN AND CERTIFIED GUARANTEE FOR THE COMPLETED WORK COVERING A PERIOD OF ONE YEAR, STARTING FROM THE DAY OF FINAL ACCEPTANCE BY THE OWNER OF THE COMPLETED AND APPROVED SYSTEMS.
12. ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND WIRED FOR THE ELECTRICAL CHARACTERISTICS CALLED FOR IN ELECTRICAL PLANS AND SPECIFICATIONS.
13. PROVIDE CHROME PLATED FLOOR, WALL AND CEILING PLATES AT EACH EXPOSED POINT WHERE PIPES PASS THROUGH FLOOR, WALL AND/OR CEILING.
14. ALL WATER PIPING AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH 1/2" COLD AND 1" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP.
15. JOINT JACKETS, JOINTS AND FITTINGS SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURER SUPPLYING THE INSULATION. INSULATION MATERIALS, INCLUDING INSULATION CLOTHS, CEMENTS, JACKETS, FACINGS, ADHESIVES, MASTIC, TAPES, AND OTHER ACCESSORIES SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY UL. PROCEDURE U1723, NOT EXCEEDING FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50. USE OF WATER SOLUBLE TREATMENTS TO ACHIEVE THESE RATINGS IS NOT ACCEPTABLE.
16. WATER PIPING BELOW FLOOR SLAB ON EARTH AND OUTSIDE SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PIPE SUBJECT TO CORROSION DUE TO SALTY DIRT SHALL RUN INSIDE THE PVC PIPE JACKET.
17. INSIDE WATER PIPING SHALL BE TYPE "M" COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PLASTIC WATER PIPE WILL NOT BE APPROVED.
18. SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC PLASTIC PIPE WITH SOLVENT WELDED JOINTS FOR ALL SOIL, WASTE AND VENT PIPING. PLASTIC PIPE MAY ONLY BE USED IF APPROVED BY PLUMBING AND FIRE CODES. PLASTIC PIPE OR ANY COMBUSTIBLE MATERIAL SHALL NOT BE USED IN THE RETURN AIR CEILING PLENUM.
19. NO VENTS OR OTHER PIPES SHALL BE VISIBLE FROM THE FRONT OF THE BUILDING.
20. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALL MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
21. THESE DRAWINGS CONTAIN BOOK TYPE SPECIFICATIONS. THE PLUMBING SECTIONS OF THESE DRAWINGS AND THE SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH EACH OTHER PRIOR TO BID AND CONSTRUCTION OF THIS PROJECT. ALL ARE CONSIDERED ONE DOCUMENT.
22. PROVIDE PLUMBING FIXTURES AS INDICATED, COMPLETE WITH EVERYTHING REQUIRED FOR CORRECT OPERATION. THERE SHALL BE NO EXPOSED PLASTIC PIPE OR TRAPS ON ANY PLUMBING FIXTURE. ROUND, FRONT WATER CLOSETS WILL NOT BE APPROVED.
23. FIXTURE NUMBERS ARE MIFAB, MCQUIRE, AMERICAN STANDARD, EQUAL PRODUCTS CRANE, KOHLER, ELJER, DELTA, SPEAKMAN, ELKAY, CHURCH, BENEKE, BEMIS, SPERZEL, HASLEY TAYLOR, DAVIS AND SUNKIE.
24. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTIONS IN THE PERFORMANCE OF THE WORK.
25. ALL WORK SHALL MEET THE LOCAL AND STATE, PLUMBING CODE, AND ENERGY CODE.
26. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH ITEM OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
27. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
28. ALL LOW VOLTAGE CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.
29. ALL SANITARY PIPE SHALL BE TERMINATED 10'-0" AWAY FROM ANY FRESH INTAKE.
30. WATER PIPING RUN IN OUTSIDE BUILDING WALLS SHALL BE RUN ON HEATED SIDE OF WALL INSULATION.
31. PROVIDE CLEAN-OUTS WHERE INDICATED AND WHERE REQUIRED BY CODE: 45 FT FOR 4" PIPE AND 50 FT FOR 3" PIPE. CLEAN-OUT COVER PLATES SHALL BE METAL AND HAVE TOP FLUSH WITH FINISHED WALL, FLOOR OR GRADE. WALL CLEAN-OUTS SHALL BE HIGHER THAN 12" ABOVE FLOOR, UNLESS OTHERWISE INDICATED. FOR DWV PVC PLASTIC PIPE SYSTEM, USE CLEAN-OUTS MANUFACTURED BY SMITH, JONESPEC, JESAM, WADE OR ZURN.
32. CONTRACTOR IS TO SUPPLY ALL SAFETY EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE SAFE CONSTRUCTION. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY INSTRUCTIONS, SUPERVISION, AND COMPLIANCE WITH ALL APPLICABLE LAWS.
33. PIPES PASSING THROUGH CONCRETE, CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIALS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE WEATHING OR OTHER MEANS THAT WILL RESISTANT TO ALKALINE AND ACID CONCRETE, OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL BE PROVIDED FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY DAMAGING ACTION.

34. A SOIL OR WASTE PIPE OR BUILDING DRAIN PASSING UNDER A FOOTING OR THROUGH A FOUNDATION WALL, SHALL BE PROVIDED WITH A RELIEVING ARCH, OR THERE SHALL BE BUILT INTO THE MASONRY WALL A PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH OR AS MAY BE APPROVED IN WRITING BY THE PLUMBING OFFICIAL.
35. TRENCHING INSTALLED PARALLEL TO FOOTINGS SHALL NOT EXTEND BELOW THE 45 DEGREE BEARING PLANE OF THE FOOTING OR WALL UNLESS APPROVED BY THE PLUMBING OFFICIAL.
36. WHEN CLEAN-OUTS ARE INSIDE THE BUILDING, CLEAN-OUTS SHALL BE ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THAT THE HORIZONTAL PIPE SERVES WHEN PRACTICAL.
37. UNDERGROUND WATER SERVICE PIPE AND THE BUILDING DRAIN OR BUILDING SEWER SHALL NOT BE LESS THAN 5 FT. APART HORIZONTALLY AND SHALL BE SEPARATED BY UNDISTURBED COMPACT EARTH.
38. WATER PIPE SHALL BE DISINFECTED AS PER CODE.
39. PROVIDE WATER PRESSURE REGULATOR WITH STRAINER IF THE WATER PRESSURE IS MORE THAN 80 PSI.
40. PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.
41. HORIZONTAL DRAINAGE PIPING SHOULD BE INSTALLED AT A UNIFORM SLOPE. 3" DIAMETER AND SMALLER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4 INCH PER FOOT. 3" DIAMETER AND LARGER PIPE SHALL BE INSTALLED WITH FALL OF NOT LESS THAN 1/8 INCH PER FOOT. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF PIPING WITH CIVIL PLAN BEFORE INSTALLING THE PIPE.
42. PROVIDE THE VACUUM BREAKER AT THE FOLLOWING WATER CONNECTION (SECTION 60813.4.2):
 - a. HOSE BIBS
 - b. NO. 3 SINK
43. PROVIDE DOUBLE CHECK FLOW PREVENTER AT THE DOWN STREAM OF METER. SEE SITE PLAN. BACK FLOW PREVENTER SHALL BE INSTALLED AS PER LOCAL AUTHORITIES' REQUIREMENTS.
 - a. DOMESTIC WATER LINE (TYPE DCVA OR RP2A)
44. PROVIDE BACK-FLOW PREVENTER AT THE EQUIPMENT WHICH ARE CONNECTED DIRECTLY TO POTABLE WATER SYSTEM, E.G. COFFEE, ICE, TEA, BEVERAGE MACHINES ETC. AS PER SECTION 6081 TO 60817.B
45. CONTRACTOR SHALL NOT CHANGE ANY PIPING LAYOUT WITHOUT WRITTEN PERMISSION.
46. CONTRACTOR SHALL NOT INSTALLED ANY PIPING OR FIXTURES WHICH WILL BE IMPEDIMENT TO THE TRAFFIC.
47. DO NOT RUN PIPING OR DUCT-WORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.
48. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL AND MECHANICAL INFORMATION PERTAINING TO PLUMBING EQUIPMENT TO ELECTRICAL AND MECHANICAL CONTRACTORS BEFORE FINAL CONTRACT SO THAT ELECTRICAL AND MECHANICAL CONTRACTOR INCLUDE IN HIS CONTRACT. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL FROM ELECTRICAL AND STRUCTURAL ENGINEERS AND CONTRACTORS.
49. ANY PIPE SUBJECT TO FREEZE OR CONDENSATE SHALL BE INSULATED.
50. ANY PIPE SUBJECT TO FREEZE SHALL BE INSULATED WITH HEAT TAPE. EXAMPLE: PIPES IN ATTIC, PARKING LOT, SANITARY PIPES TRAP IN PARKING LOT.
51. ALL WATER PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION AS PER PLUMBING CODE SECTION 608.8
52. ALL SANITARY PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION.
53. CONTRACTOR MUST VERIFY THE LOCATION OF EXISTING SEWER LINE INCLUDING INVERT ELEVATIONS BEFORE RUNNING ANY PIPES. ENGINEER HAS NO MEANS TO VERIFY EXISTING CONDITIONS. LOCATION OF PIPES ON PLAN MAY NOT MATCH WITH SITE.
54. DRAINAGE OUTLET SHALL BE RODENTPROOF AS PER PLUMBING CODE SECTION 304.
55. ALL SANITARY AND WATER PIPES SHALL BE PROTECTED FROM FREEZING AS PER PLUMBING CODE SECTION 305.6.6' BELOW FROST LINE AND NOT LESS THAN 12" BELOW GRADE.
56. ALL PIPES SUPPORT SHALL BE PROTECTED FROM WEATHER (PAINT OR STAINLESS STEEL TO PREVENT CORROSION). SEE SECTION 308.
57. CONTRACTOR SHALL PROVIDE TRAP PRIMER TO EACH FLOOR DRAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL USE TRAP GUARD DRAIN BY PRO-VENT SYSTEMS (1-800-266-5355 WWW.TRAPGUARD.COM) IF IT IS PERMITTED BY THE LOCAL CODE OFFICIAL.
58. ALL PLUMBING VENT SHALL BE NOT BE VISIBLE FROM THE FRONT.
59. REMOVE ALL HANGERS, SUPPORTS, AND ACCESSORIES ASSOCIATED WITH ITEMS OR EQUIPMENT BEING DEMOLISHED.



WWW.LDLine.com

@ Plans



SECOND FLOOR PLAN-WATER
1/4"=1'-0"

WATER RISER DETAIL
NO SCALE - SCHEMATIC ONLY

REVISION	Number	Date	Remarks	Number	Date	Remarks
	X	00-00-00	NA			

CONSULTANTS
Date Plotted: Apr 19, 2018 - 12:13pm
File: 2018-02092.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
200 LULLWATER PLACE, LAWRENCEVILLE, GA 30046
TEL: 770-962-1111 FAX: 770-962-1111

CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
POST OFFICE BOX 1004
117 EAST WASHINGTON STREET
MONROE, GEORGIA 30655
Fax: 770-267-1064
email: carterwatkins.com www.carterwatkins.com



DOUGLAS COUNTY BOUNDARY WATERS PARK CONCESSION STAND
DOUGLASVILLE, GEORGIA

SHEET TITLE:
SECOND FLOOR PLAN -WATER
NOTES
PRINTED: 04/19/18

NUMBER:
P-2

DATE: 04/19/18
PRINTED