

P.M.E. GENERAL NOTES

1. WORK SHALL COMPLY WITH ALL CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION. SEE SHEET A1 FOR CODE LIST.
2. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND OTHER SERVICES NECESSARY TO MAINTAIN A COMPLETE & OPERATING PLUMBING, MECHANICAL & ELECTRICAL SYSTEM.
3. FIELD VERIFY EXISTING LOCATIONS AND CONDITION OF PLUMBING, MECHANICAL & ELECTRICAL SYSTEMS.
4. ALL PLUMBING FITTINGS, MECHANICAL FITTINGS & ELECTRICAL JUNCTION BOXES PENETRATING OUTSIDE WALLS OF THE BUILDING ARE TO BE CAULKED AND AIR-SEALED BETWEEN THE FITTING/JUNCTION BOX AND THE DRYWALL/SHEATHING.
5. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.

MECHANICAL NOTES

1. EXISTING HVAC TO REMAIN.
2. CONTRACTOR TO VISIT SITE OR PREMISES AND BE FAMILIAR WITH JOB CONDITIONS PRIOR TO SUBMITTING BID.
3. ALL WORK SHALL BE DONE IN A FIRST CLASS MANNER AND THE MATERIALS USED FOR JOB SHALL BE NEW AND THE BEST OF ITS KIND.
4. CONTRACTOR IS TO GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL COMPLETION, AGAINST ALL DEFECTS OF MATERIALS, EQUIPMENT, AND WORKMANSHIP.
5. CONTRACTOR TO TEST SYSTEM PRIOR TO OPERATION.
6. ALL CUTTING AND PATCHING CAUSED BY THIS WORK SHALL BE PERFORMED BY THIS CONTRACTOR.
7. NEW SYSTEMS TO MINIMIZE USE OF SOFFITS AND BUMP-OUTS FOR DUCTWORK. PROVIDE LAYOUT TO COORDINATE ALL NEW DUCTWORK LOCATIONS WITH ARCHITECT.
8. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE FOR ROUGH-IN INSPECTION.
9. OUTDOOR COMBUSTION AIR SHALL BE PROVIDED TO MECHANICAL ROOMS AS SPECIFIED IN IRC, CHAPTER 1701.
10. MECHANICAL EQUIPMENT SHALL HAVE CLEARANCES FROM COMBUSTIBLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. TOILET EXHAUST SHALL NOT BE TERMINATED IN AN EAVE, ATTIC, OR CRAWL SPACE.
12. GAS PIPES THAT PENETRATE THROUGH THE FOUNDATION WALL OR BASEMENT SHALL BE ENCLOSED IN SLEEVE.

ELECTRICAL & PLUMBING SYMBOLS

- NOTE: RECESSED LIGHTS FOR INSULATED CEILINGS TO BE TYPE FOR DIRECT CONTACT WITH INSULATION.
- JUNO 5" RECESSED CAN. IC20R LED GOOLM REMODEL HOUSING; 205 TRIM, WHITE BAFFLE.
 - JUNO 6" RECESSED SLOPED CEILING CAN. IC926 LED 900LM NEW CONSTRUCTION HOUSING; 614 TRIM, WHITE BAFFLE.
 - REINFORCED JUNCTION BOX WITH CEILING MOUNTED PENDANT LED LIGHT FIXTURE.
 - SWITCH, SINGLE POLE / 3-WAY / 4-WAY. LUTRON, DIVA. COLOR: WHITE, SCREWLESS WALLPLATES
 - 110V DUPLEX WALL RECEPTACLE MOUNTED AT 12" A.F.F. UNLESS NOTED OTHERWISE. LUTRON, COORDINATE WITH DIVA SERIES. COLOR: WHITE, SCREWLESS WALLPLATES
 - 110V DUPLEX WALL RECEPTACLE WITH GROUND FAULT INTERRUPTER MOUNTED AT HEIGHT INDICATED. LUTRON, COORDINATE WITH DIVA SERIES. COLOR: WHITE, SCREWLESS WALLPLATES
 - PANASONIC WHISPER-CEILING 190 CFM CEILING EXHAUST BATH FAN, MODEL #FV-20VQ3. UNIT PERIMETER TO BE AIR-SEALED AGAINST DRYWALL, VENT TO EXTERIOR.
 - COMBINATION HEAT AND SMOKE DETECTOR. DIRECT WIRE WITH BATTERY BACKUP COMBINATION. PROVIDE AN INTERCONNECTED DEDICATED CIRCUIT FOR ALL SMOKE DETECTORS THAT IS PERMANENTLY WIRED INTO ELECTRICAL SERVICE.
 - PLT BRAND LED EMERGENCY LIGHT #B2201 WITH BATTERY BACKUP COMBINATION. PROVIDE AN INTERCONNECTED DEDICATED CIRCUIT FOR ALL EMERGENCY LIGHTS THAT IS PERMANENTLY WIRED INTO ELECTRICAL SERVICE.

PLUMBING NOTES

1. REPLACE EXISTING LEAD WATER SERVICE W/ NEW 2" COPPER SERVICE.
2. ALL UNDERGROUND SEWER LINES SHALL BE AS CALLED FOR ON SITE ENGINEERING PLAN (IF APPLICABLE). ALL NEW SEWER LINES ABOVE FLOOR SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS.
3. ALL OVERHEAD DOMESTIC HOT AND COLD WATER LINES SHALL BE COPPER PIPING, TYPE "L", AND UNDERGROUND SHALL BE COPPER PIPING TYPE "K".
4. PROVIDE DIELECTRIC FITTINGS WHERE NECESSARY.
5. INSULATION CONTRACTOR TO INSULATE HOT AND COLD WATER LINES WITH FIBERGLASS BATT INSULATION AT ALL HABITABLE SPACES.
6. CLEANOUTS ARE TO BE INSTALLED AT EACH CHANGE IN DIRECTION OF SEWER LINES.
7. ALL PLUMBING VENT LOCATIONS ABOVE THE ROOF LINE ARE TO BE REVIEWED WITH ARCHITECT PRIOR TO ROUGH-IN.
8. COORDINATE STORM DRAINS, GUTTER LEADERS AND FOUNDATION PERIMETER DRAINAGE WITH EXIST.
9. PROVIDE BACKFLOW PROTECTION FOR HAND SHOWERS (890.1130 F).
10. ANTI-SCALD VALVES ON SHOWERS OR TUB/SHOWER COMBINATIONS SET AT 115 DEGREES AT TIME OF INSPECTION (890.690 B)
11. INSULATE HOT WATER AND RETURN LINES PER IECC 2015 ALL SIZES 3/4" AND LARGER, AND ALL RETURN LINES.

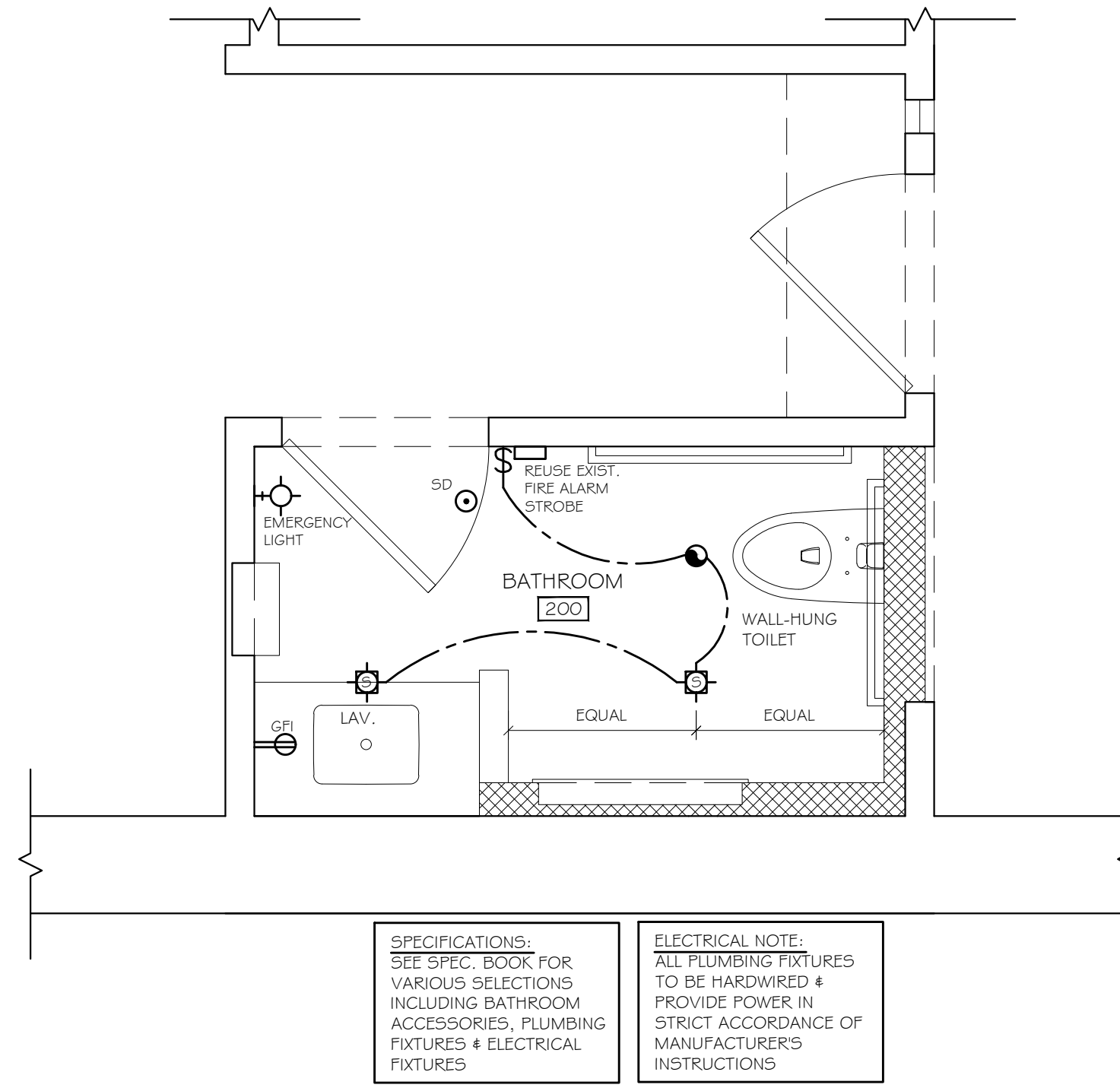
ELECTRICAL NOTES

1. EXISTING ELECTRICAL SERVICE TO REMAIN.
2. FIELD VERIFY FINAL LOCATIONS FOR ALL ELECTRICAL SWITCHES, RECEPTACLES, JUNCTION BOXES AND FIXTURES WITH OWNER & ARCHITECT PRIOR TO INSTALLING CONDUIT.
3. ALL BRANCH CIRCUITS THAT SUPPLY HABITABLE ROOMS INCLUDING CLOSETS, HALLWAYS & SIMILAR AREAS WILL HAVE ARC FAULT CIRCUIT INTERRUPTER (COMBINATION-TYPE) PROTECTION - SEE CODE FOR EXCEPTIONS.
4. CONTRACTOR TO COMPLY WITH ARTICLE 210-19 FPN NO.4.
5. OUTLET SPACING TO COMPLY WITH 2010 NFPA 70 ARTICLE 210-52.
6. DISHWASHERS & DISPOSALS SHALL HAVE A SEPARATE MEANS OF DISCONNECTION UNDER THE SINK CABINET. EACH WIRED TO A SEPARATE 20 AMP CIRCUIT.
7. SWITCHES & RECEPTACLES IN BATHROOM SHALL BE LOCATED A MIN. 30" FROM INSIDE EDGE OF TUB OR SHOWER MEASURED HORIZONTALLY AT FLOOR LINE. LIGHTING FIXTURES ABOVE OR WITHIN 2' OF INSIDE OF TUB'S EDGE MUST HAVE GFCI PROTECTION.
8. ALL SMOKE DETECTORS TO BE INTERCONNECTED & HARDWIRED WITH BATTERY BACKUP.
9. IN ALL DWELLING UNITS, ALL CLOSETS 23" DEEP OR MORE & ALL STOREROOMS, UTILITY ROOMS & PANTRIES ILLUMINATION IS REQUIRED. CLOSET LIGHTING SHALL COMPLY WITH NEC FIG. 410.2
10. COPPER BUS SHALL BE USED IN ALL SWITCHBOARDS, PANEL BOARDS & METER SOCKET ENCLOSURES CONTAINING MORE THAN 4 SOCKETS.
11. ALL NEW RECEPTACLES SHALL BE TAMPER RESISTANT. (ARTICLE:406.12 NEC)

WATER SERVICE CALCULATIONS

| PLUMBING FIXTURE CALCULATIONS | | | | | |
|---|--------------------------|------------|------|------|-------|
| ILLINOIS PLUMBING CODE, PART 890 | | | | | |
| TABLE M: LOAD VALUES ASSIGNED TO FIXTURES | | | | | |
| TABLE O: WATER SUPPLY FIXTURE UNITS (WSFU) FOR A SUPPLY SYSTEM WITH FLOWMETER | | | | | |
| ROOM | FIXTURE | LOAD VALUE | COLD | HOT | TOTAL |
| MECH. ROOM | SERVICE SINK | 2 | 2 | 3 | |
| STORAGE ROOM | SERVICE SINK | 2 | 2 | 3 | |
| KITCHEN | KITCHEN SINK | 3 | 3 | 4 | |
| BASEMENT BATH | WATER CLOSET FLUSH VALVE | 10 | 0 | 10 | |
| BASEMENT BATH | LAVATORY | 1 | 1 | 2 | |
| 1ST FLR. WOMEN'S BATH | WATER CLOSET FLUSH VALVE | 10 | 0 | 10 | |
| 1ST FLR. WOMEN'S BATH | LAVATORY | 10 | 0 | 10 | |
| 1ST FLR. WOMEN'S BATH | LAVATORY | 1 | 1 | 2 | |
| 1ST FLR. MEN'S BATH | WATER CLOSET FLUSH VALVE | 10 | 0 | 10 | |
| 1ST FLR. MEN'S BATH | URINAL 3/4" FLUSH VALVE | 5 | 0 | 5 | |
| 1ST FLR. MEN'S BATH | LAVATORY | 1 | 1 | 2 | |
| 1ST FLR. STACKS | DRINKING FOUNTAIN | 0.25 | 0 | 0.25 | |
| 2ND FLR. BATH | WATER CLOSET FLUSH VALVE | 10 | 0 | 10 | |
| 2ND FLR. BATH | LAVATORY | 1 | 1 | 2 | |
| TOTAL | | | | | 73.25 |
| ILLINOIS PLUMBING CODE SECTION 890 TABLE O: 70 W.S.F.U. = 58.5 GPM | | | | | |
| 2" WATER SERVICE & 1-1/2" METER SIZE REQUIRED | | | | | |

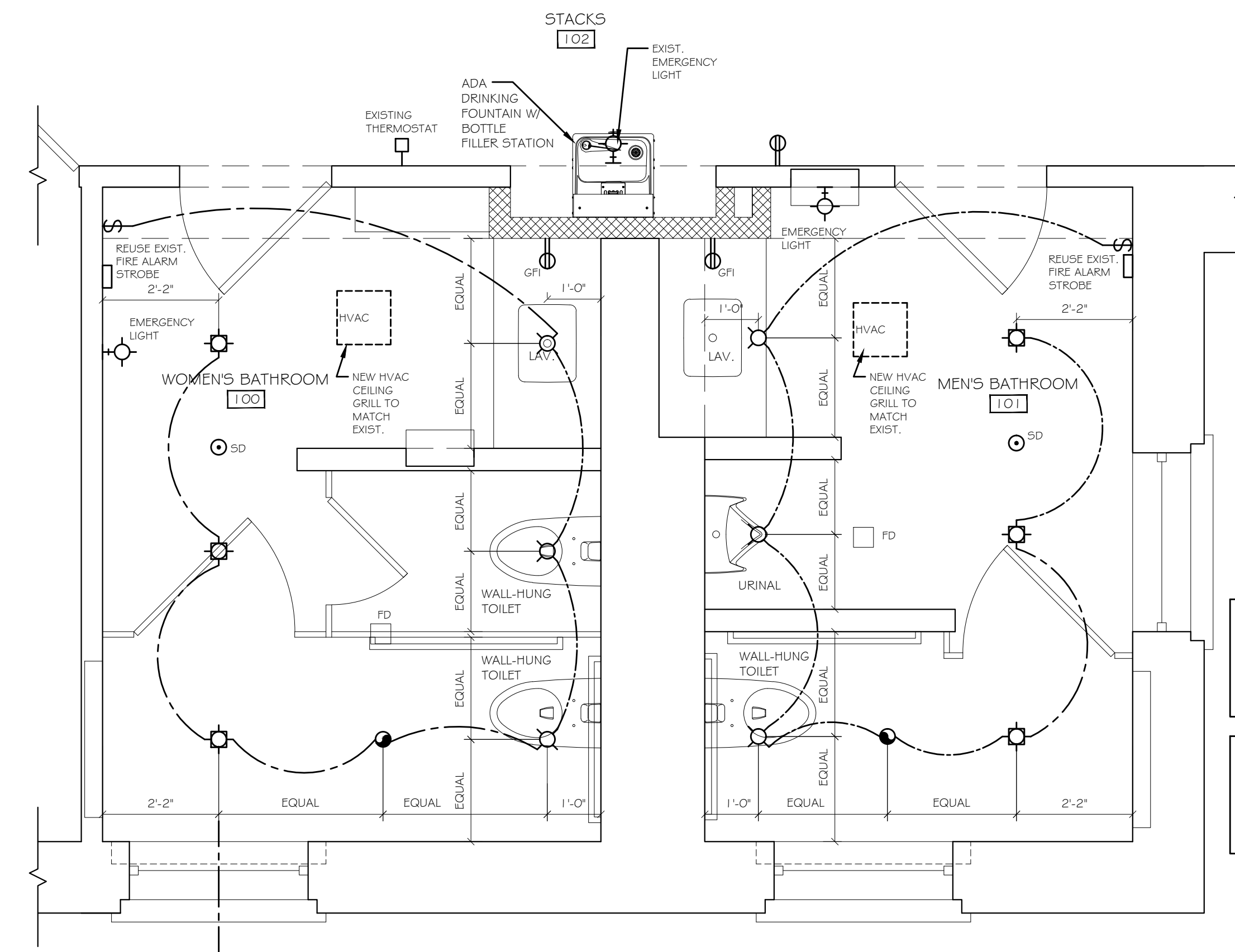
2 2ND FLOOR BATH ELECTRICAL PLAN
1/2" = 1'-0"



SPECIFICATIONS: SEE SPEC. BOOK FOR VARIOUS SELECTIONS INCLUDING BATHROOM ACCESSORIES, PLUMBING FIXTURES & ELECTRICAL FIXTURES

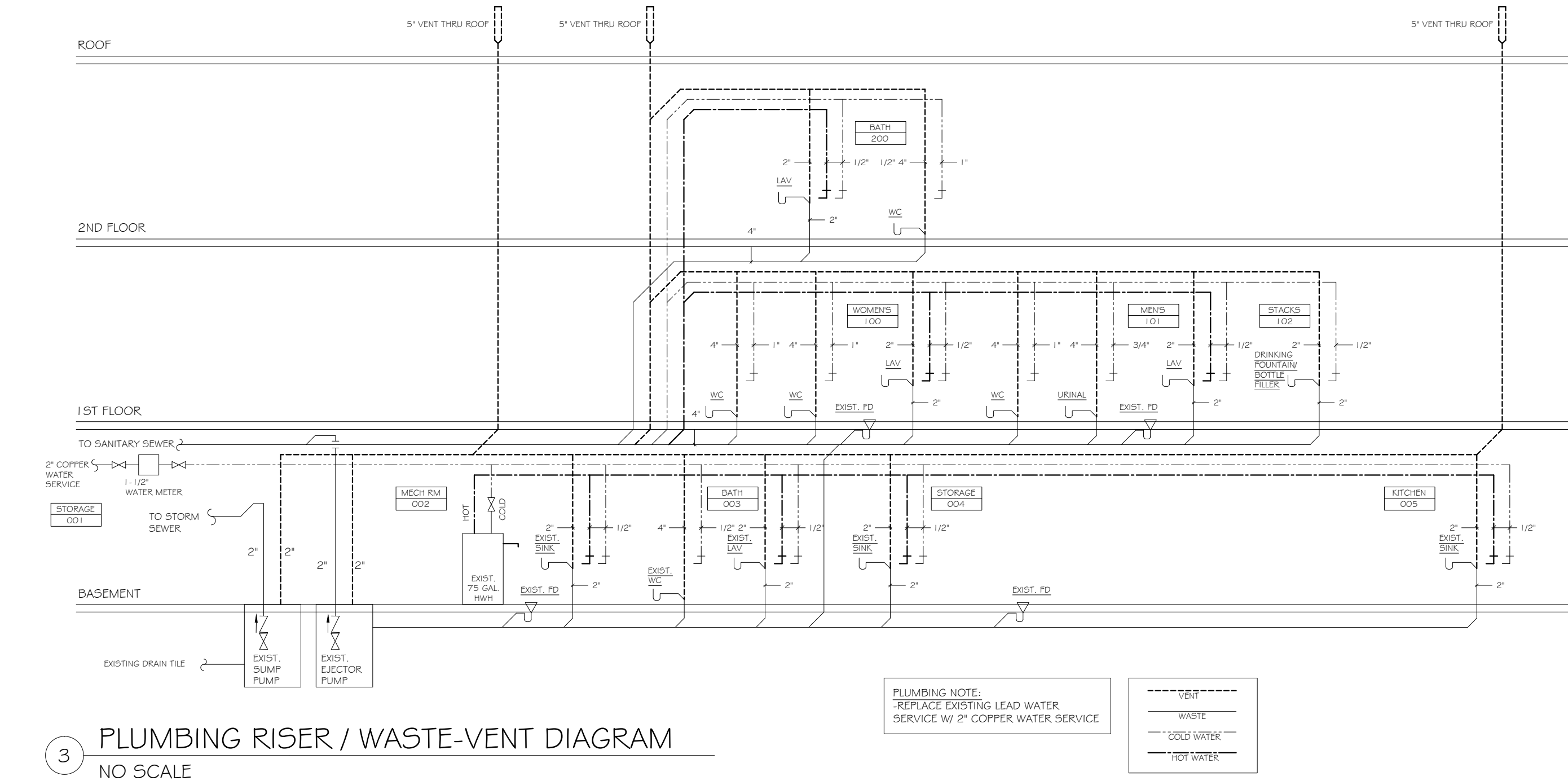
ELECTRICAL NOTE: ALL PLUMBING FIXTURES TO BE HARDWIRED & PROVIDE POWER IN STRICT ACCORDANCE OF MANUFACTURERS INSTRUCTIONS

1 1ST FLOOR BATH ELECTRICAL PLAN
1/2" = 1'-0"



SPECIFICATIONS: SEE SPEC. BOOK FOR VARIOUS SELECTIONS INCLUDING BATHROOM ACCESSORIES, PLUMBING FIXTURES & ELECTRICAL FIXTURES

ELECTRICAL NOTE: ALL PLUMBING FIXTURES TO BE HARDWIRED & PROVIDE POWER IN STRICT ACCORDANCE OF MANUFACTURERS INSTRUCTIONS



3 PLUMBING RISER / WASTE-VENT DIAGRAM
NO SCALE

PLUMBING NOTE: REPLACE EXISTING LEAD WATER SERVICE W/ 2" COPPER WATER SERVICE

--- WASTE ---
--- COLD WATER ---
--- HOT WATER ---

DATE: 2019-02-22

ISSUED FOR: PERMIT & BID

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ELECTRICAL PLANS
PME NOTES

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CHECKED: RSJ
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